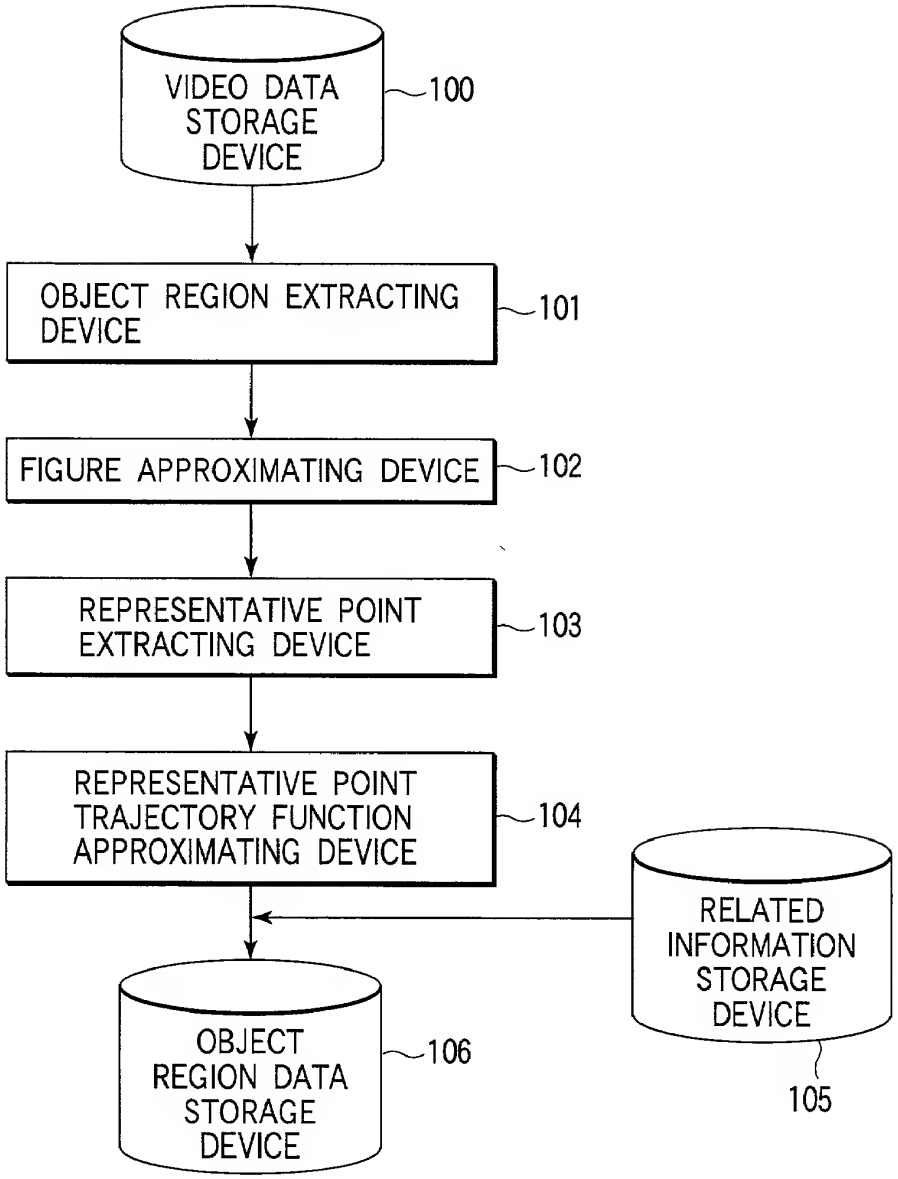
VIDEO DATA STORAGE DEVICE
100
OBJECT REGION EXTRACTING DEVICE
101
FIGURE APPROXIMATING DEVICE
102
REPRESENTATIVE POINT EXTRACTING DEVICE
103
REPRESENTATIVE POINT TRAJECTORY FUNCTION APPROXIMATING DEVICE
104
RELATED INFORMATION STORAGE DEVICE
105
OBJECT REGION DATA STORAGE DEVICE
106

FIG. 1

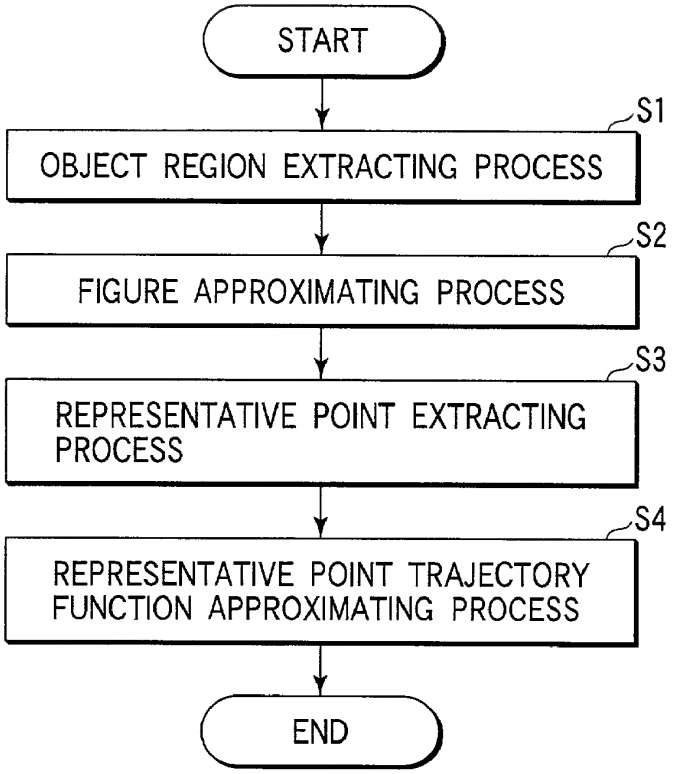
START
S1
OBJECT REGION EXTRACTING PROCESS
S2
FIGURE APPROXIMATING PROCESS
S3
REPRESENTATIVE POINT EXTRACTING PROCESS
S4
REPRESENTATIVE POINT TRAJECTORY FUNCTION APPROXIMATING PROCESS
END

FIG. 2

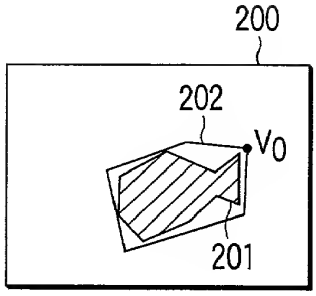

FIG. 3A

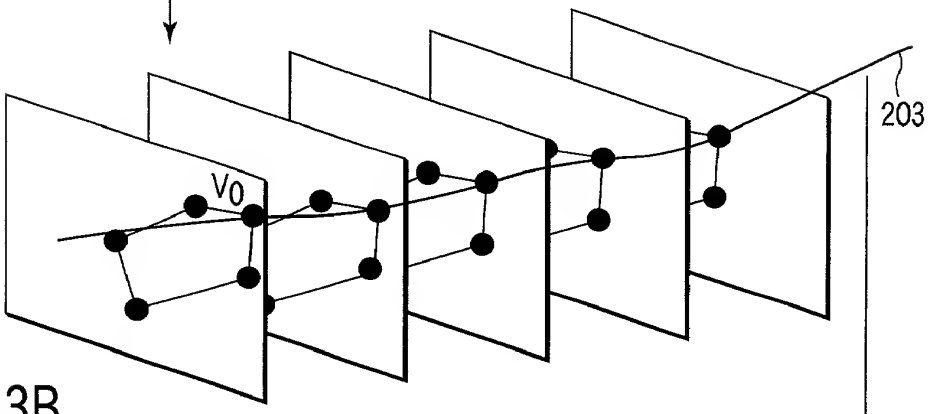

FIG. 3B

X-COORDINATE	$2t^2+5$ $(0 \leq t \leq 5)$, OR $-0.1t^2+4t+32.5$ $(5 \leq t \leq 16)$	204

FIG. 3C

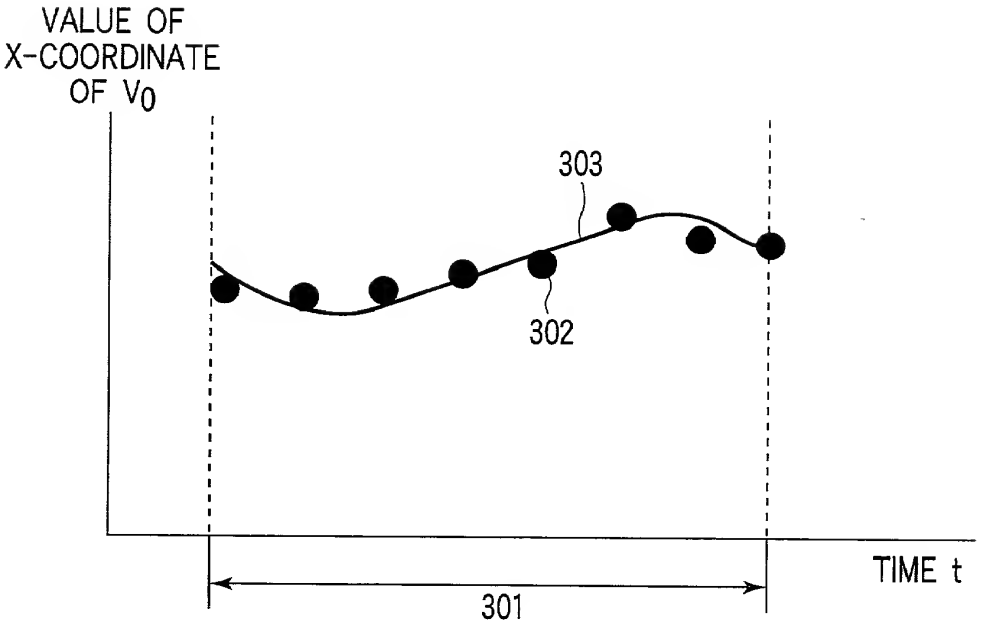
VALUE OF
X-COORDINATE
OF V0
303
302
TIME t
301

FIG. 4

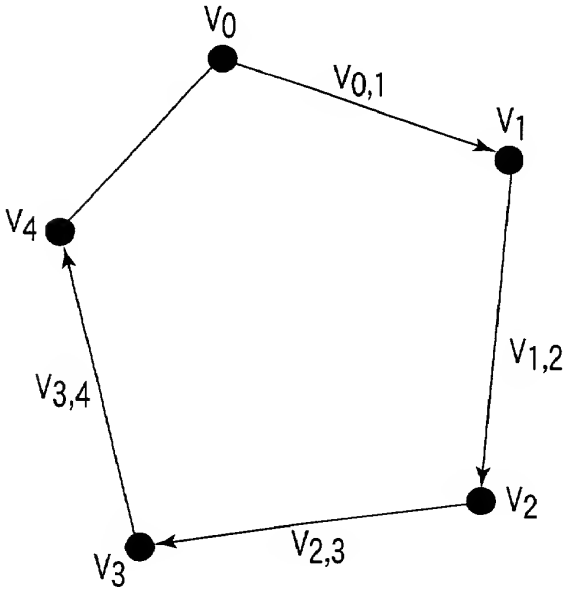
V0
V0,1
V1
V4
V1,2
V3,4
V2
V2,3
V3

FIG. 5

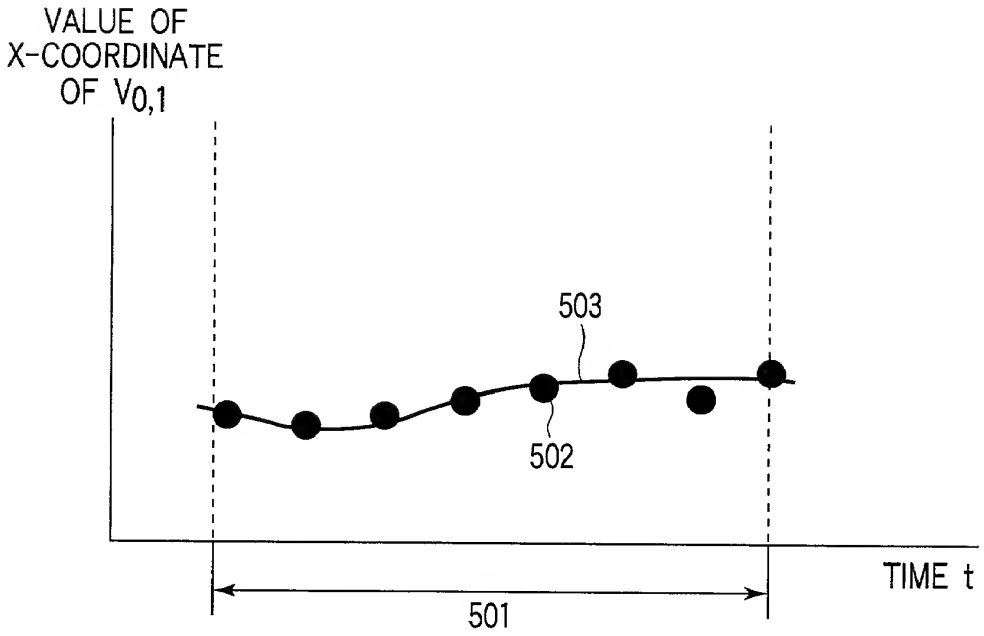

FIG. 6

FIGURE TYPE ID	700
OBJECT APPEARING TIME	701
OBJECT EXISTING TIME PERIOD	702
NUMBER OF REPRESENTATIVE POINTS M	703
REPRESENTATIVE POINT TRAJECTORY (1)	704
REPRESENTATIVE POINT TRAJECTORY (2)	
⋮	
REPRESENTATIVE POINT TRAJECTORY (M)	

FIG. 8

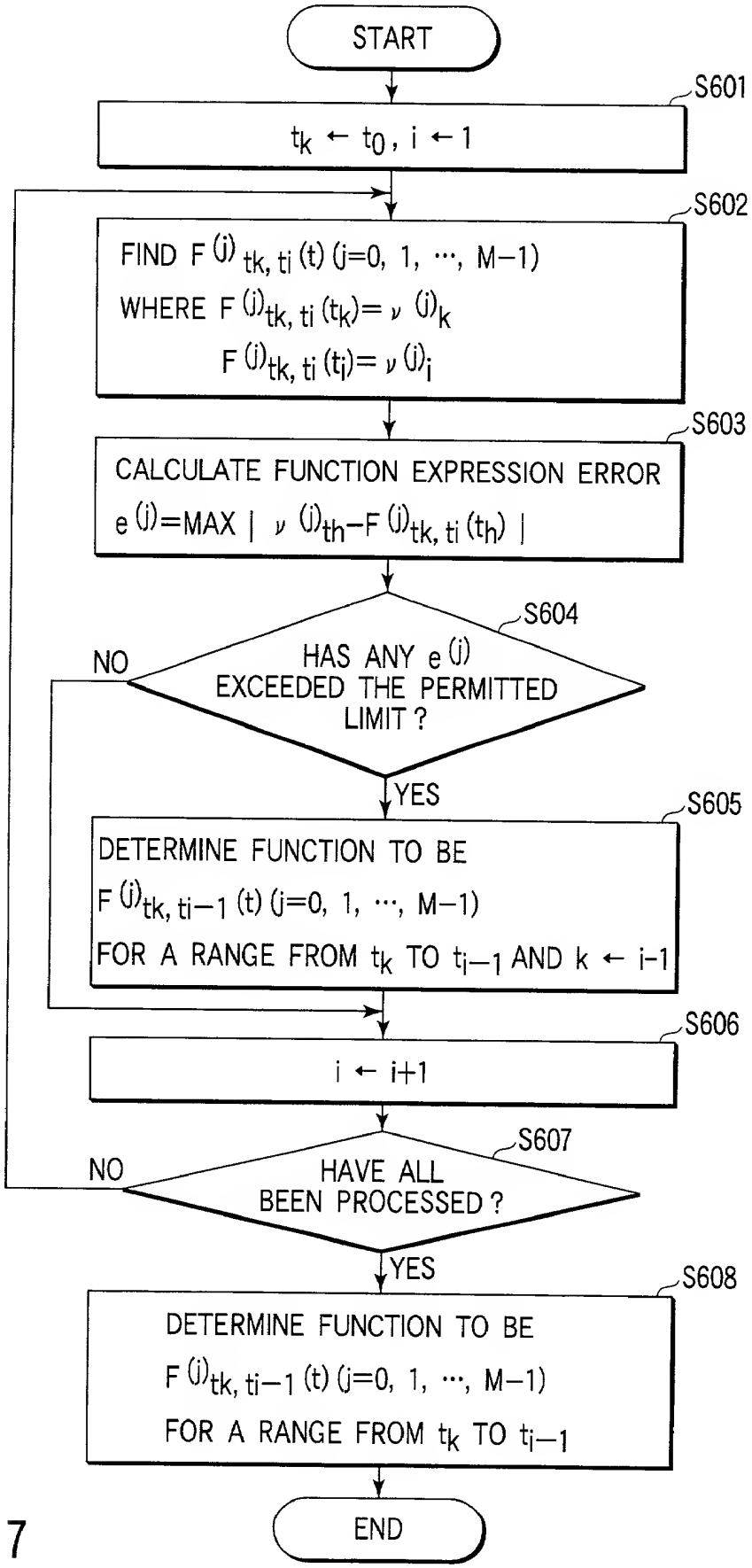
START
S601
$t_k \leftarrow t_0$, $i \leftarrow 1$
S602
FIND $F^{(j)}_{tk, ti}(t)$ (j=0, 1, ···, M−1)
WHERE $F^{(j)}_{tk, ti}(t_k) = \nu^{(j)}_k$
$F^{(j)}_{tk, ti}(t_i) = \nu^{(j)}_i$
S603
CALCULATE FUNCTION EXPRESSION ERROR
$e^{(j)} = MAX \mid \nu^{(j)}_{th} - F^{(j)}_{tk, ti}(t_h) \mid$
S604
HAS ANY $e^{(j)}$ EXCEEDED THE PERMITTED LIMIT ?
NO
YES
S605
DETERMINE FUNCTION TO BE
$F^{(j)}_{tk, ti-1}(t)$ (j=0, 1, ···, M−1)
FOR A RANGE FROM t_k TO t_{i-1} AND $k \leftarrow i-1$
S606
$i \leftarrow i+1$
S607
HAVE ALL BEEN PROCESSED ?
NO
YES
S608
DETERMINE FUNCTION TO BE
$F^{(j)}_{tk, ti-1}(t)$ (j=0, 1, ···, M−1)
FOR A RANGE FROM t_k TO t_{i-1}
END

FIG. 7

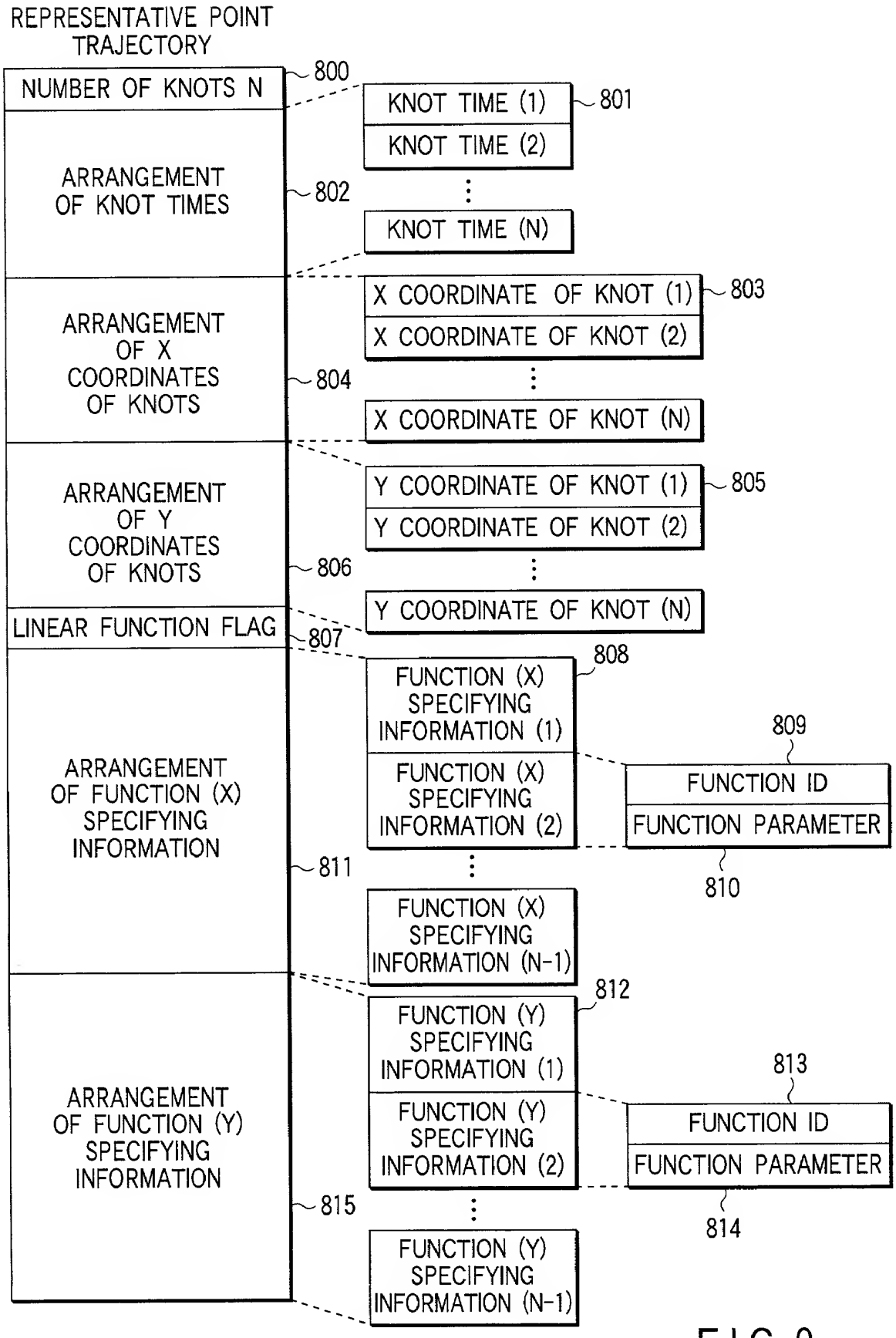
REPRESENTATIVE POINT TRAJECTORY
NUMBER OF KNOTS N
800
KNOT TIME (1)
801
KNOT TIME (2)
ARRANGEMENT OF KNOT TIMES
802
KNOT TIME (N)
X COORDINATE OF KNOT (1)
803
X COORDINATE OF KNOT (2)
ARRANGEMENT OF X COORDINATES OF KNOTS
804
X COORDINATE OF KNOT (N)
Y COORDINATE OF KNOT (1)
805
Y COORDINATE OF KNOT (2)
ARRANGEMENT OF Y COORDINATES OF KNOTS
806
Y COORDINATE OF KNOT (N)
LINEAR FUNCTION FLAG
807
FUNCTION (X) SPECIFYING INFORMATION (1)
808
809
FUNCTION ID
FUNCTION (X) SPECIFYING INFORMATION (2)
FUNCTION PARAMETER
ARRANGEMENT OF FUNCTION (X) SPECIFYING INFORMATION
810
811
FUNCTION (X) SPECIFYING INFORMATION (N-1)
812
FUNCTION (Y) SPECIFYING INFORMATION (1)
813
FUNCTION ID
FUNCTION (Y) SPECIFYING INFORMATION (2)
FUNCTION PARAMETER
ARRANGEMENT OF FUNCTION (Y) SPECIFYING INFORMATION
814
815
FUNCTION (Y) SPECIFYING INFORMATION (N-1)

FIG. 9

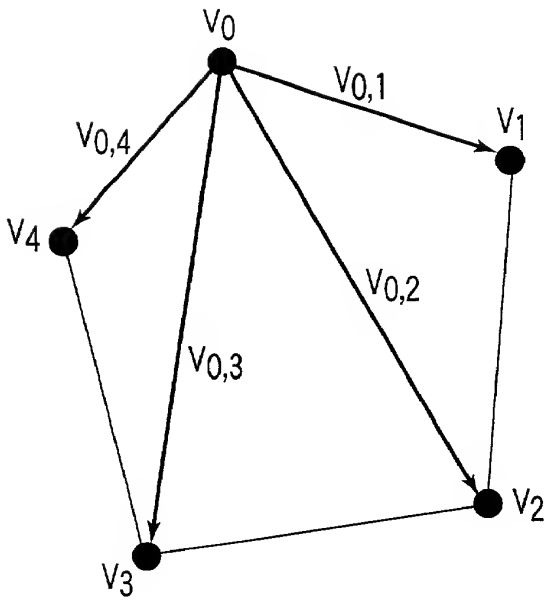

FIG. 10

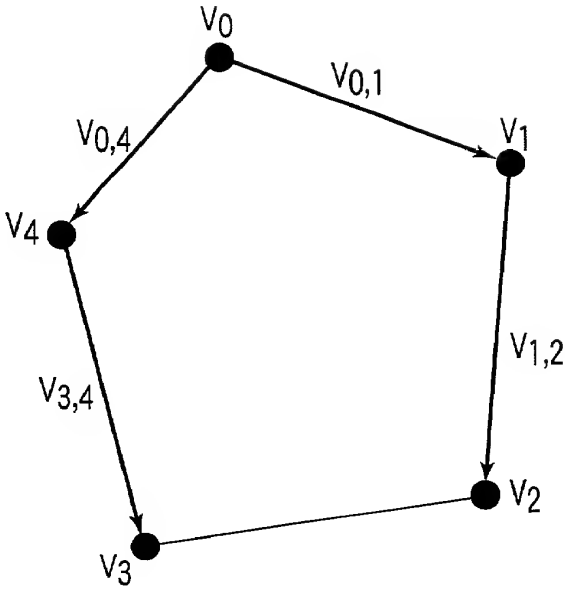

FIG. 11A

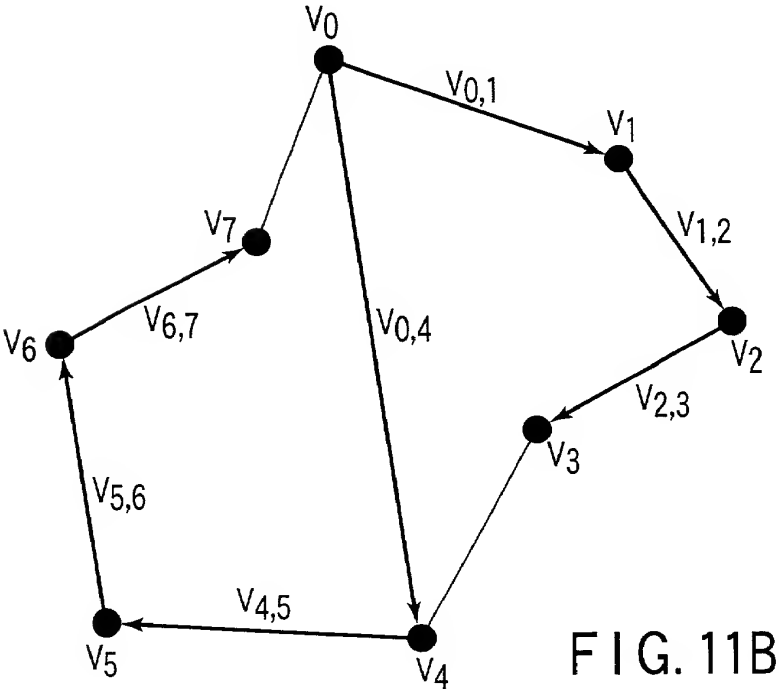

FIG. 11B

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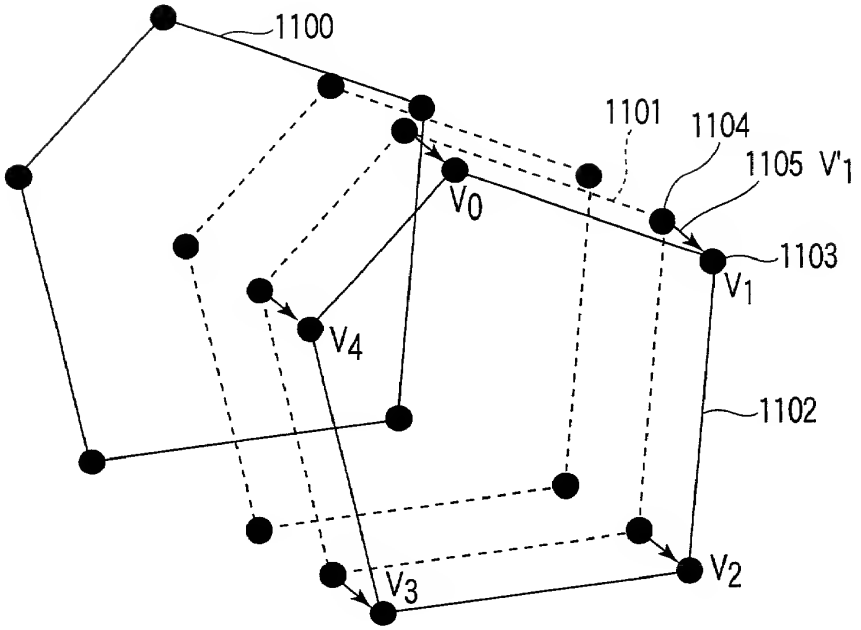

FIG. 12

FIGURE TYPE ID
OBJECT APPEARING TIME
OBJECT EXISTING TIME PERIOD
NUMBER OF REPRESENTATIVE POINTS M
REPRESENTATIVE POINT INITIAL POSITION
REPRESENTATIVE POINT TRAJECTORY (1)
REPRESENTATIVE POINT TRAJECTORY (2)
⋮
REPRESENTATIVE POINT TRAJECTORY (M)

700
701
702
703
1200
704

FIG. 13

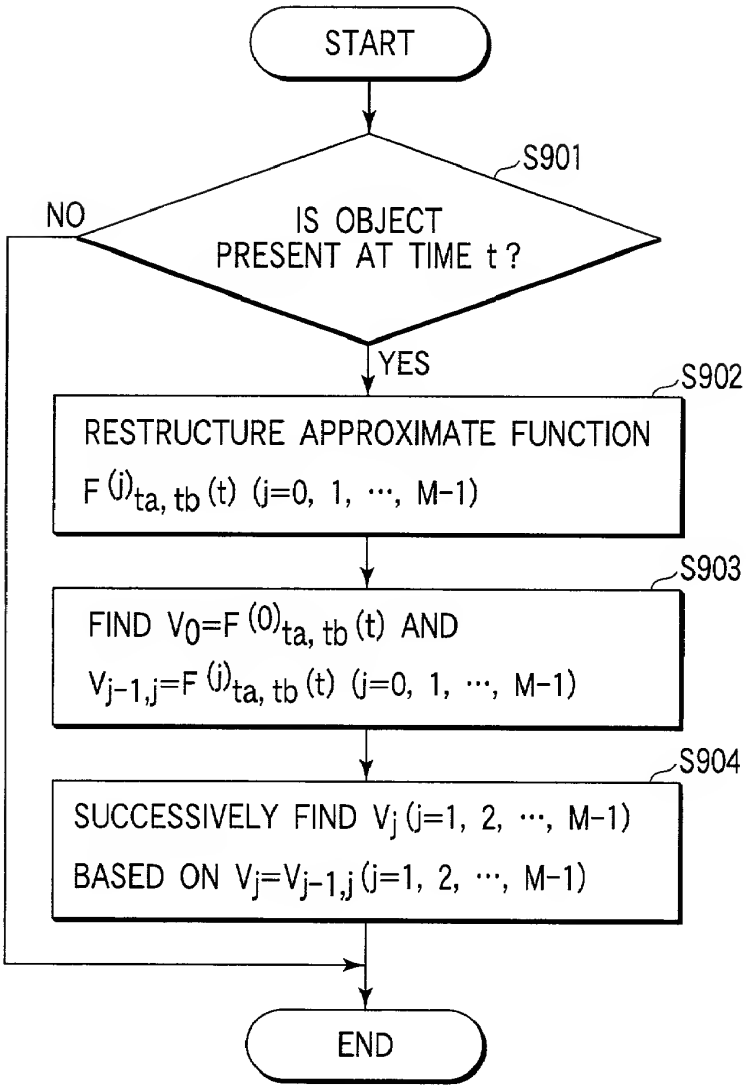
START
S901
IS OBJECT PRESENT AT TIME t ?
NO
YES
S902
RESTRUCTURE APPROXIMATE FUNCTION
F (j)ta, tb (t) (j=0, 1, ···, M-1)
S903
FIND V0=F (0)ta, tb (t) AND
Vj-1,j=F (j)ta, tb (t) (j=0, 1, ···, M-1)
S904
SUCCESSIVELY FIND Vj (j=1, 2, ···, M-1)
BASED ON Vj=Vj-1,j (j=1, 2, ···, M-1)
END

FIG. 14

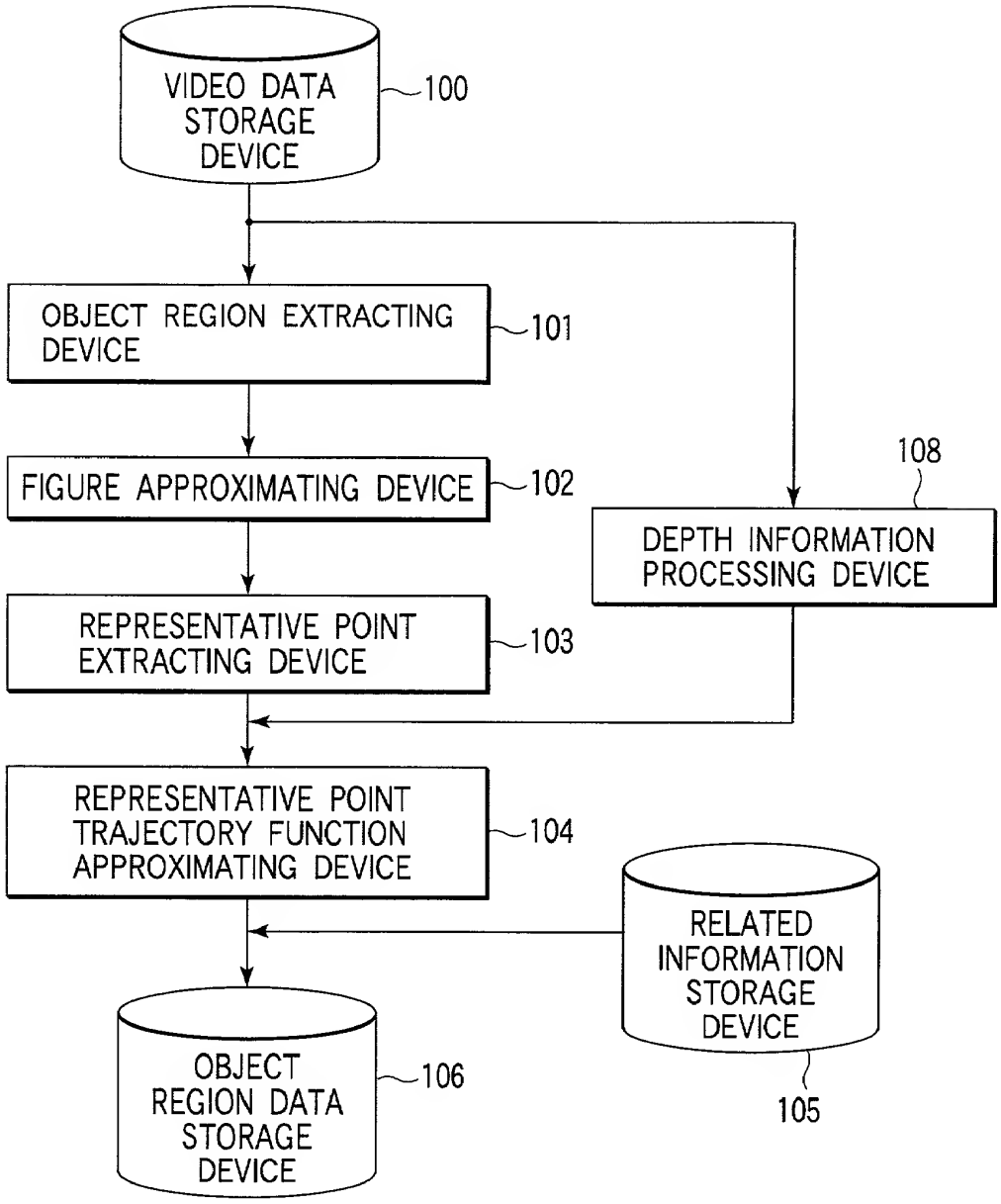
VIDEO DATA STORAGE DEVICE
100
OBJECT REGION EXTRACTING DEVICE
101
FIGURE APPROXIMATING DEVICE
102
REPRESENTATIVE POINT EXTRACTING DEVICE
103
REPRESENTATIVE POINT TRAJECTORY FUNCTION APPROXIMATING DEVICE
104
OBJECT REGION DATA STORAGE DEVICE
106
108
DEPTH INFORMATION PROCESSING DEVICE
RELATED INFORMATION STORAGE DEVICE
105

FIG. 15

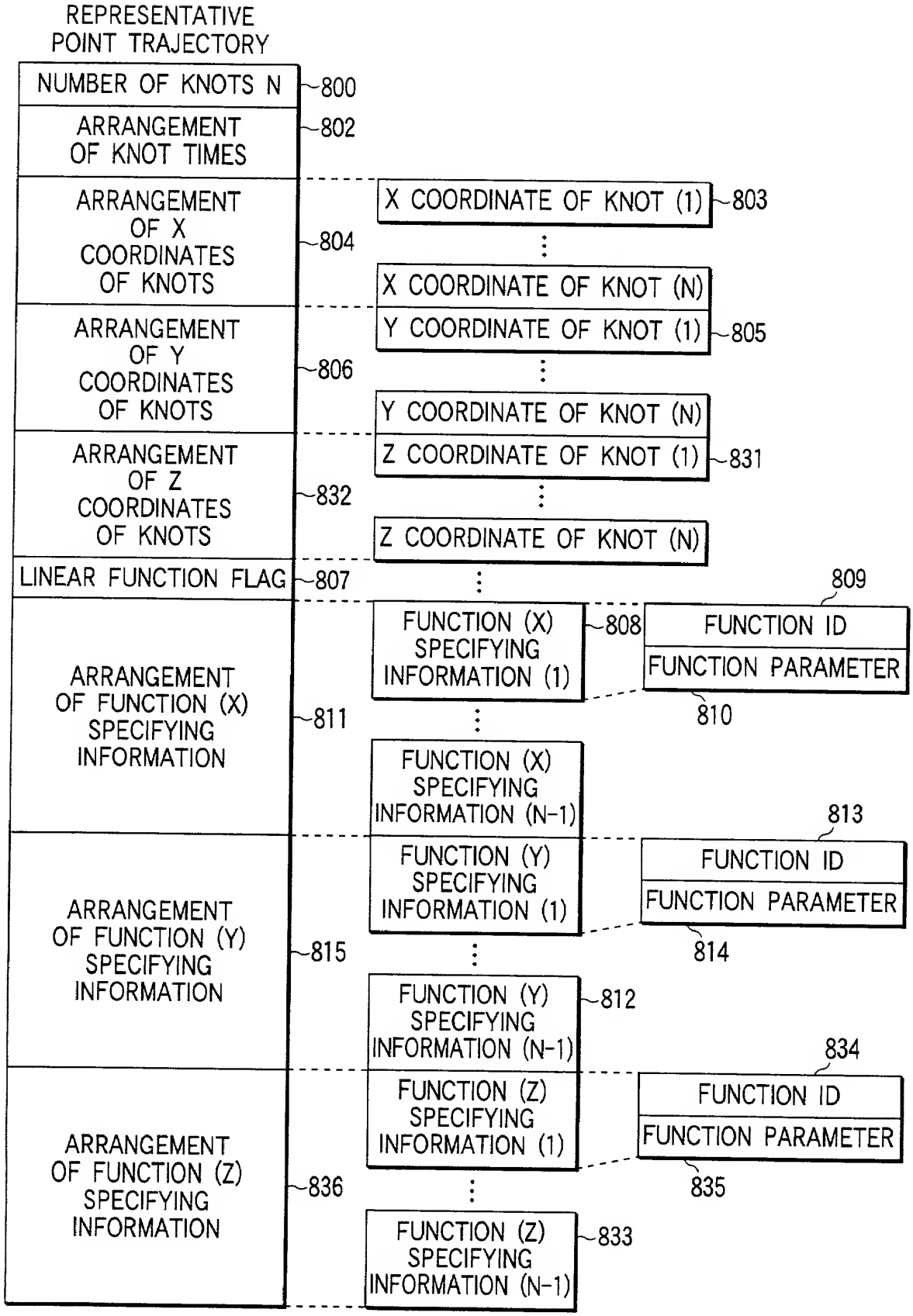

FIG. 16

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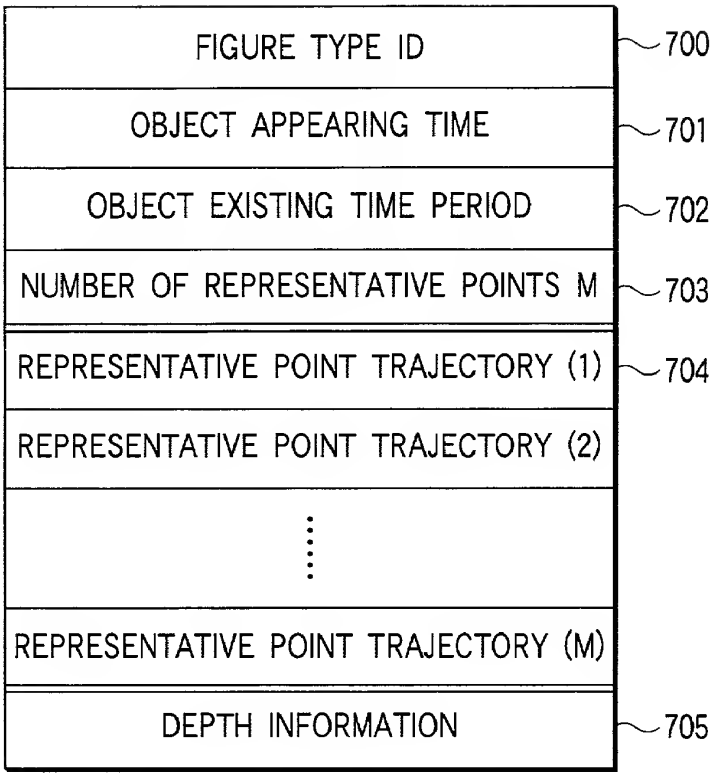


FIGURE TYPE ID
700
OBJECT APPEARING TIME
701
OBJECT EXISTING TIME PERIOD
702
NUMBER OF REPRESENTATIVE POINTS M
703
REPRESENTATIVE POINT TRAJECTORY (1)
704
REPRESENTATIVE POINT TRAJECTORY (2)
REPRESENTATIVE POINT TRAJECTORY (M)
DEPTH INFORMATION
705

FIG. 17

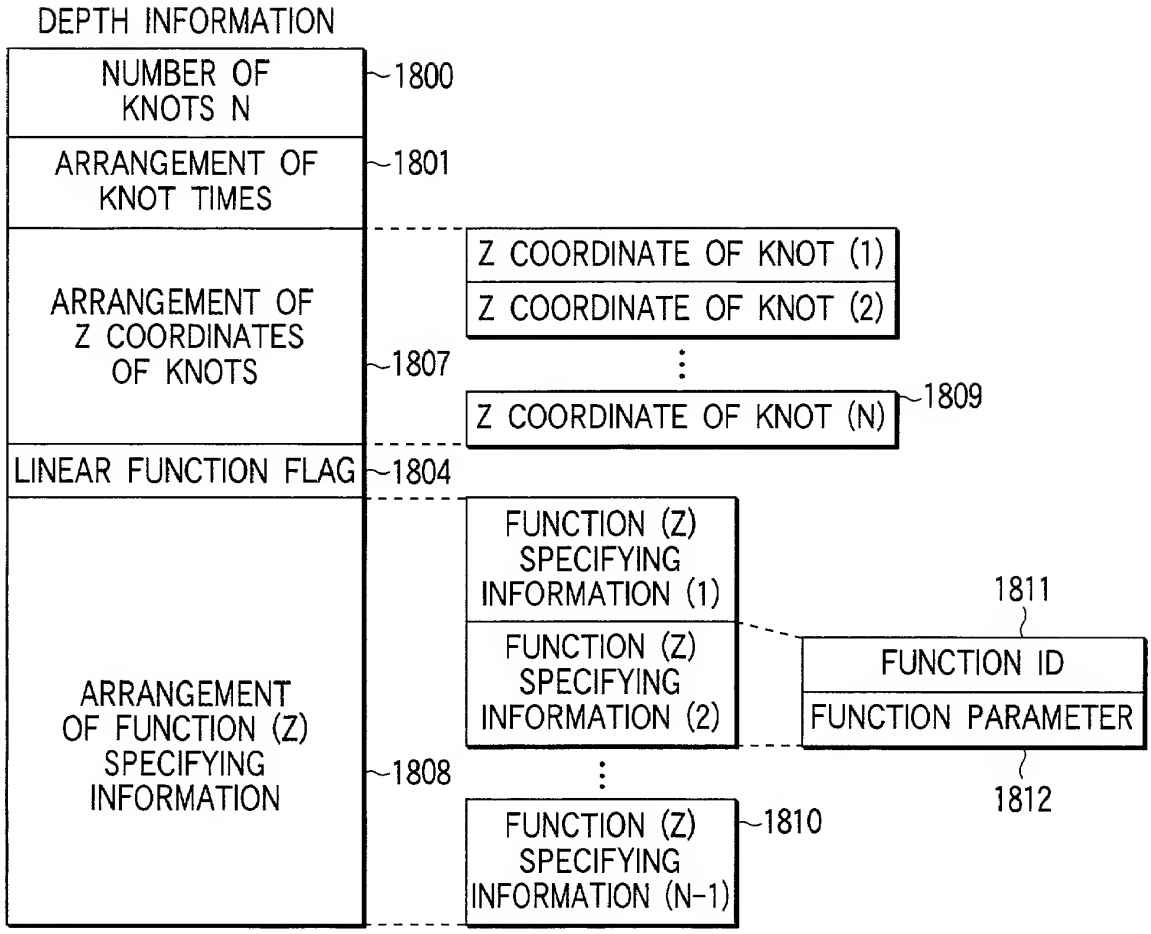

DEPTH INFORMATION
NUMBER OF KNOTS N
1800
ARRANGEMENT OF KNOT TIMES
1801
ARRANGEMENT OF Z COORDINATES OF KNOTS
1807
Z COORDINATE OF KNOT (1)
Z COORDINATE OF KNOT (2)
Z COORDINATE OF KNOT (N)
1809
LINEAR FUNCTION FLAG
1804
ARRANGEMENT OF FUNCTION (Z) SPECIFYING INFORMATION
1808
FUNCTION (Z) SPECIFYING INFORMATION (1)
FUNCTION (Z) SPECIFYING INFORMATION (2)
FUNCTION (Z) SPECIFYING INFORMATION (N-1)
1810
1811
FUNCTION ID
FUNCTION PARAMETER
1812

FIG. 18

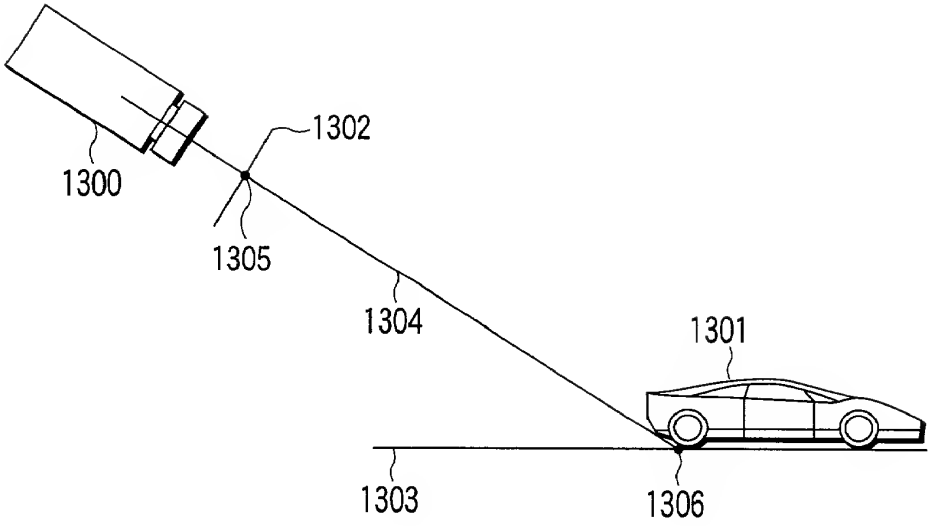

1300
1302
1305
1304
1301
1303
1306

FIG. 19

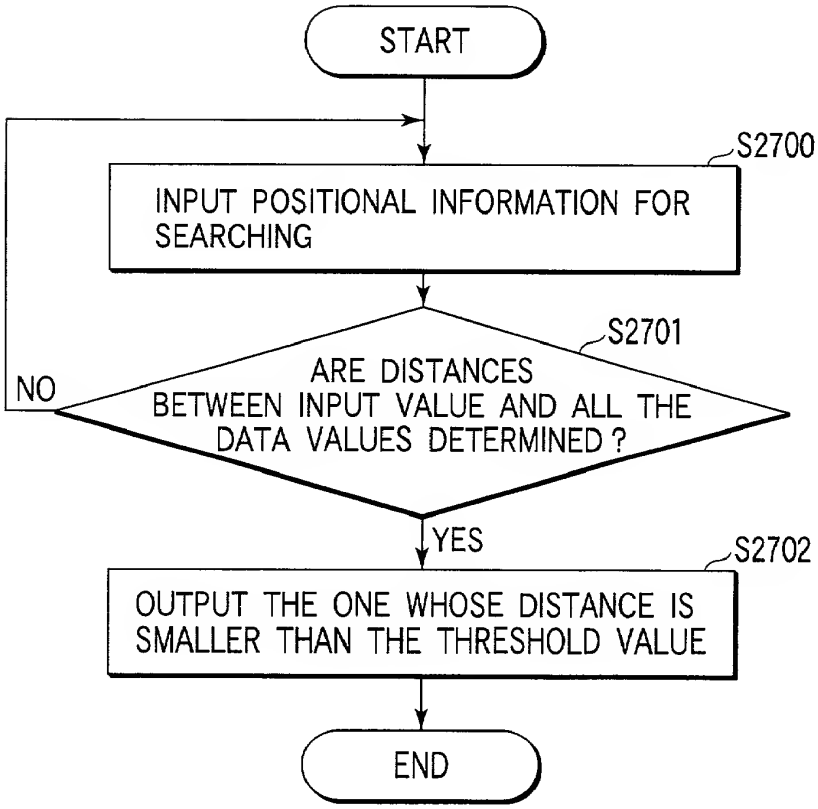

START
S2700
INPUT POSITIONAL INFORMATION FOR SEARCHING
S2701
ARE DISTANCES BETWEEN INPUT VALUE AND ALL THE DATA VALUES DETERMINED ?
NO
YES
S2702
OUTPUT THE ONE WHOSE DISTANCE IS SMALLER THAN THE THRESHOLD VALUE
END

FIG. 20

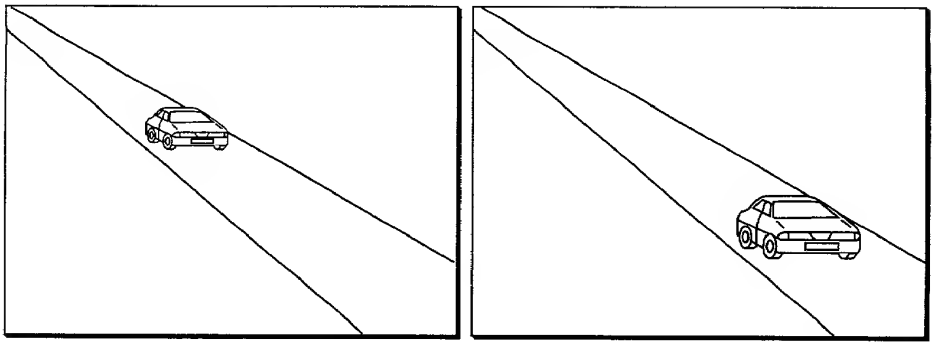


FIG. 21A FIG. 21B

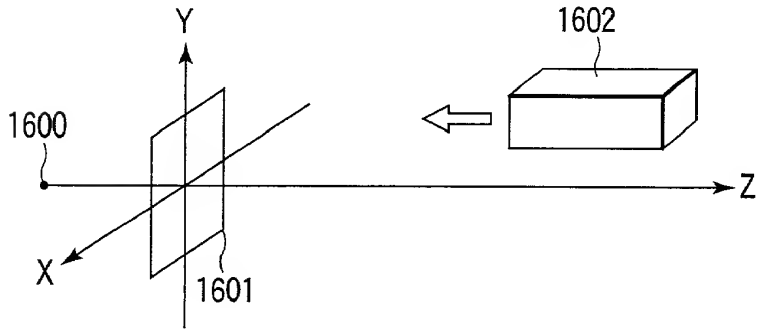


FIG. 22

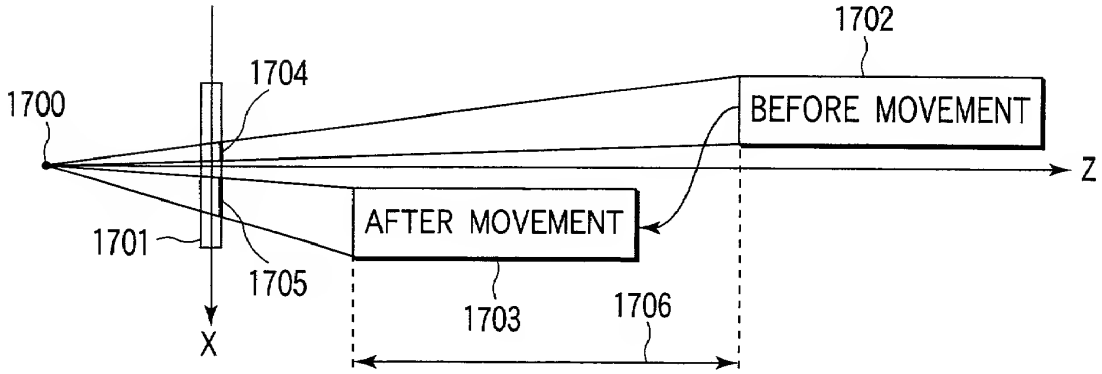


FIG. 23

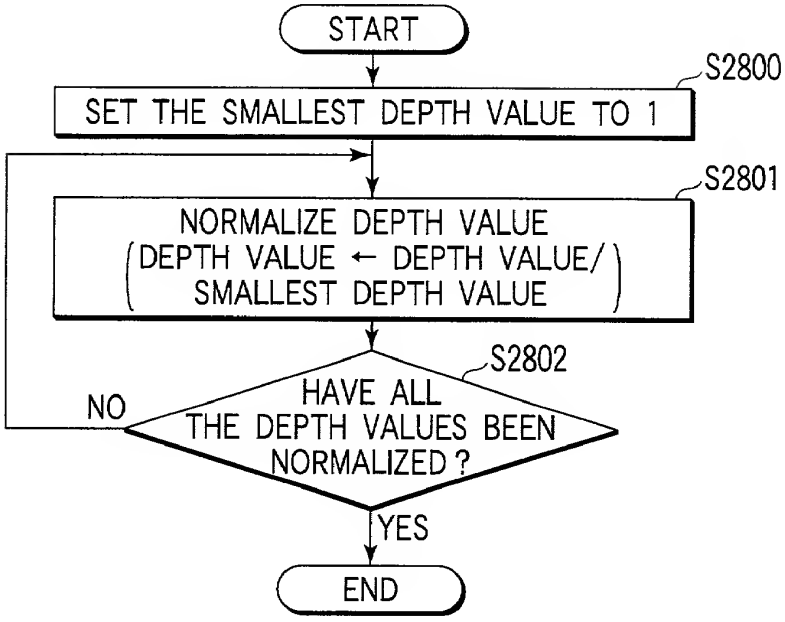

START
S2800
SET THE SMALLEST DEPTH VALUE TO 1
S2801
NORMALIZE DEPTH VALUE
(DEPTH VALUE ← DEPTH VALUE/
SMALLEST DEPTH VALUE)
S2802
HAVE ALL
THE DEPTH VALUES BEEN
NORMALIZED ?
NO
YES
END

FIG. 24

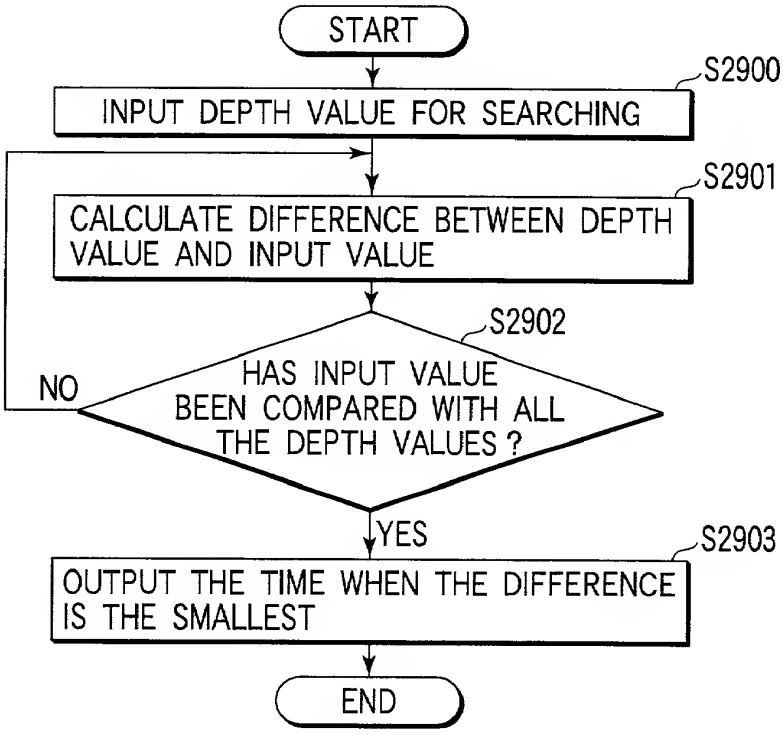

START
S2900
INPUT DEPTH VALUE FOR SEARCHING
S2901
CALCULATE DIFFERENCE BETWEEN DEPTH
VALUE AND INPUT VALUE
S2902
HAS INPUT VALUE
BEEN COMPARED WITH ALL
THE DEPTH VALUES ?
NO
YES
S2903
OUTPUT THE TIME WHEN THE DIFFERENCE
IS THE SMALLEST
END

FIG. 25

FIG. 26A

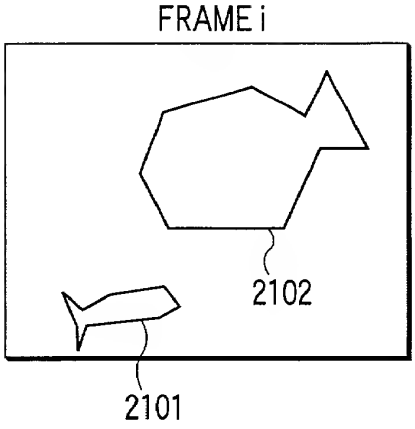


FIG. 26B

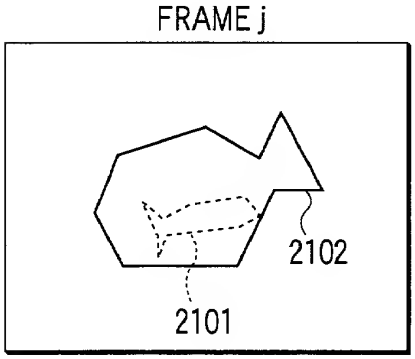
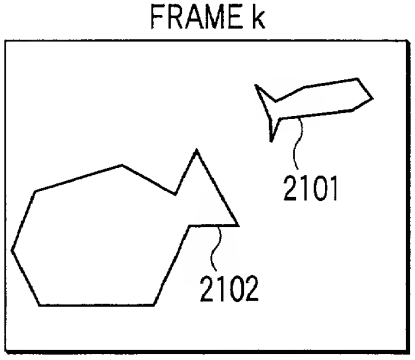


FIG. 26C



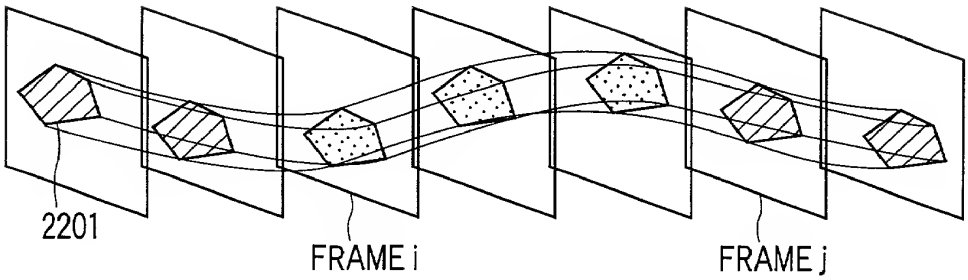

2201
FRAME i
FRAME j

FIG. 27

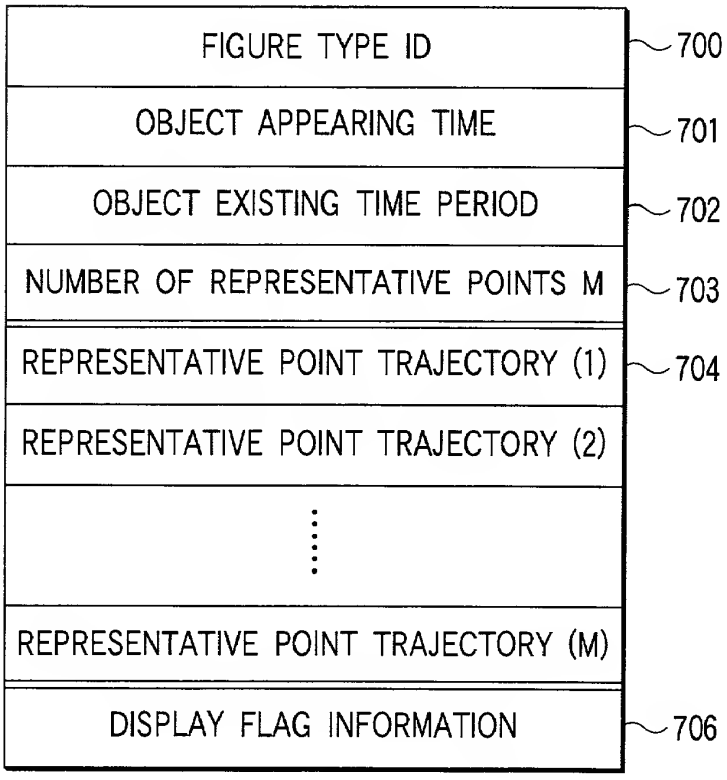


FIGURE TYPE ID
700
OBJECT APPEARING TIME
701
OBJECT EXISTING TIME PERIOD
702
NUMBER OF REPRESENTATIVE POINTS M
703
REPRESENTATIVE POINT TRAJECTORY (1)
704
REPRESENTATIVE POINT TRAJECTORY (2)
REPRESENTATIVE POINT TRAJECTORY (M)
DISPLAY FLAG INFORMATION
706

FIG. 28

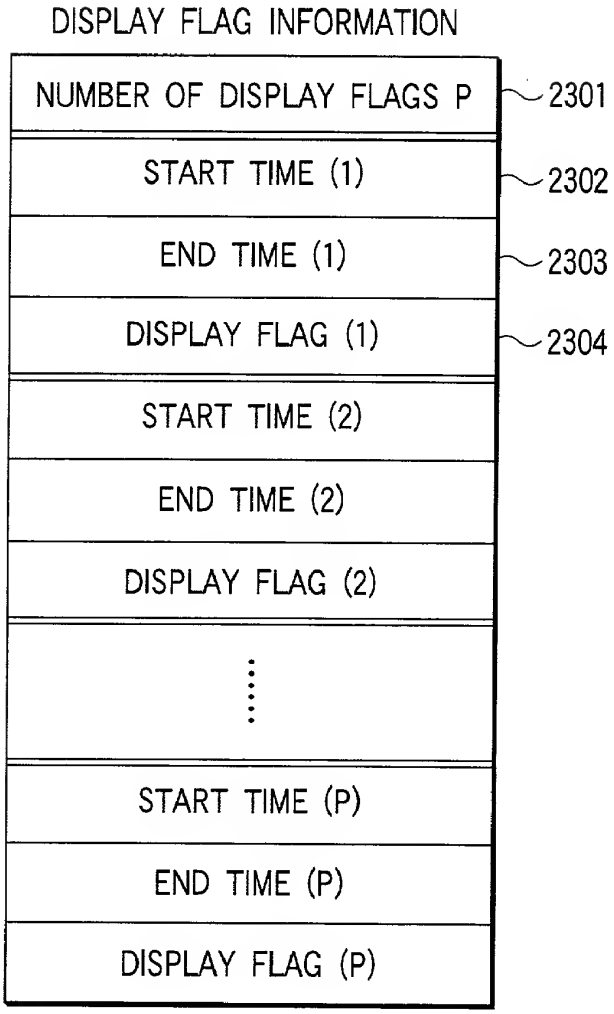

DISPLAY FLAG INFORMATION
NUMBER OF DISPLAY FLAGS P
2301
START TIME (1)
2302
END TIME (1)
2303
DISPLAY FLAG (1)
2304
START TIME (2)
END TIME (2)
DISPLAY FLAG (2)
START TIME (P)
END TIME (P)
DISPLAY FLAG (P)

FIG. 29

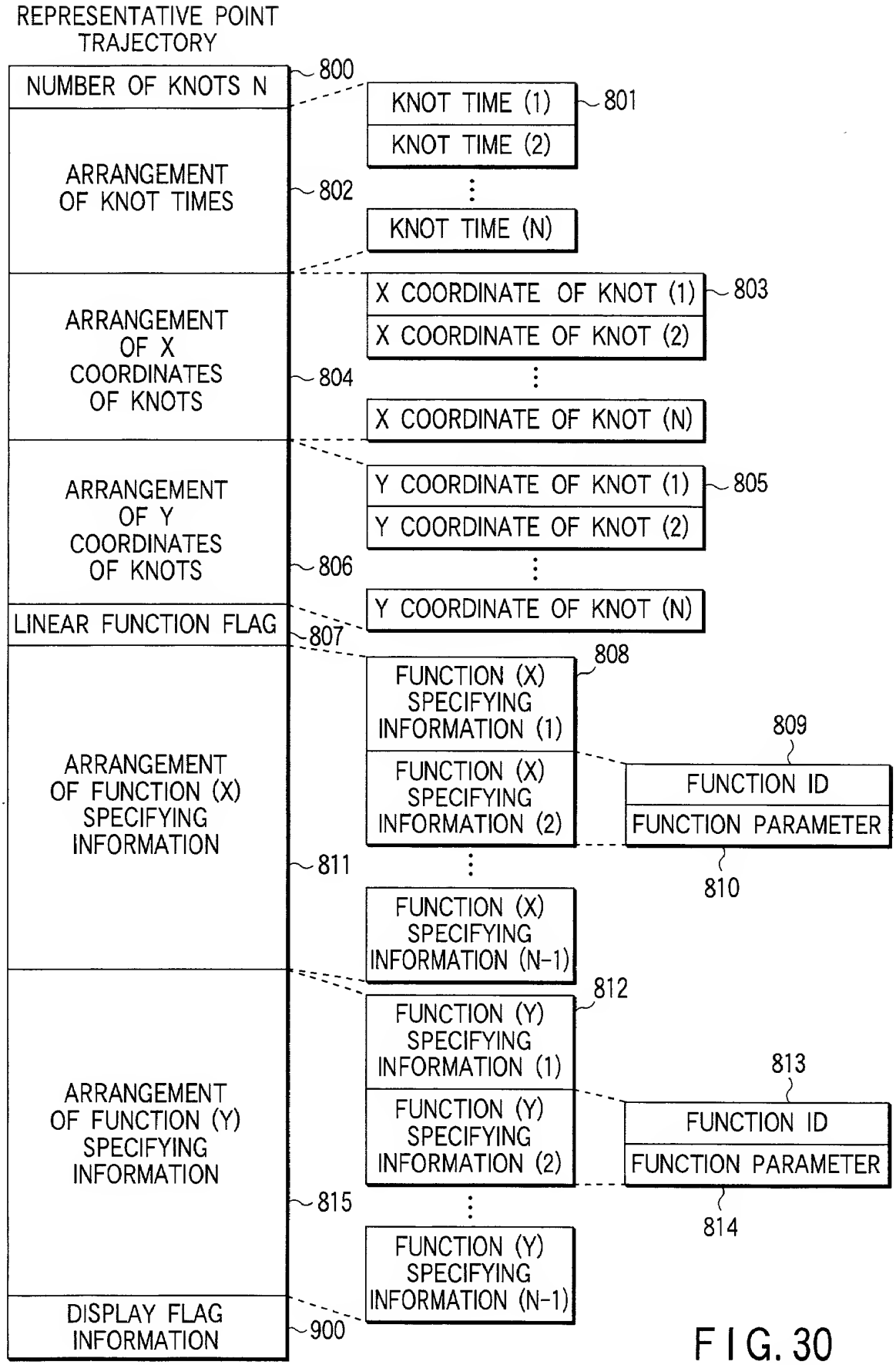

REPRESENTATIVE POINT TRAJECTORY
NUMBER OF KNOTS N
800
KNOT TIME (1)
801
KNOT TIME (2)
ARRANGEMENT OF KNOT TIMES
802
KNOT TIME (N)
ARRANGEMENT OF X COORDINATES OF KNOTS
X COORDINATE OF KNOT (1)
803
X COORDINATE OF KNOT (2)
804
X COORDINATE OF KNOT (N)
ARRANGEMENT OF Y COORDINATES OF KNOTS
Y COORDINATE OF KNOT (1)
805
Y COORDINATE OF KNOT (2)
806
Y COORDINATE OF KNOT (N)
LINEAR FUNCTION FLAG
807
ARRANGEMENT OF FUNCTION (X) SPECIFYING INFORMATION
FUNCTION (X) SPECIFYING INFORMATION (1)
808
809
FUNCTION ID
FUNCTION (X) SPECIFYING INFORMATION (2)
FUNCTION PARAMETER
810
811
FUNCTION (X) SPECIFYING INFORMATION (N-1)
ARRANGEMENT OF FUNCTION (Y) SPECIFYING INFORMATION
FUNCTION (Y) SPECIFYING INFORMATION (1)
812
813
FUNCTION ID
FUNCTION (Y) SPECIFYING INFORMATION (2)
FUNCTION PARAMETER
814
815
FUNCTION (Y) SPECIFYING INFORMATION (N-1)
DISPLAY FLAG INFORMATION
900

FIG. 30

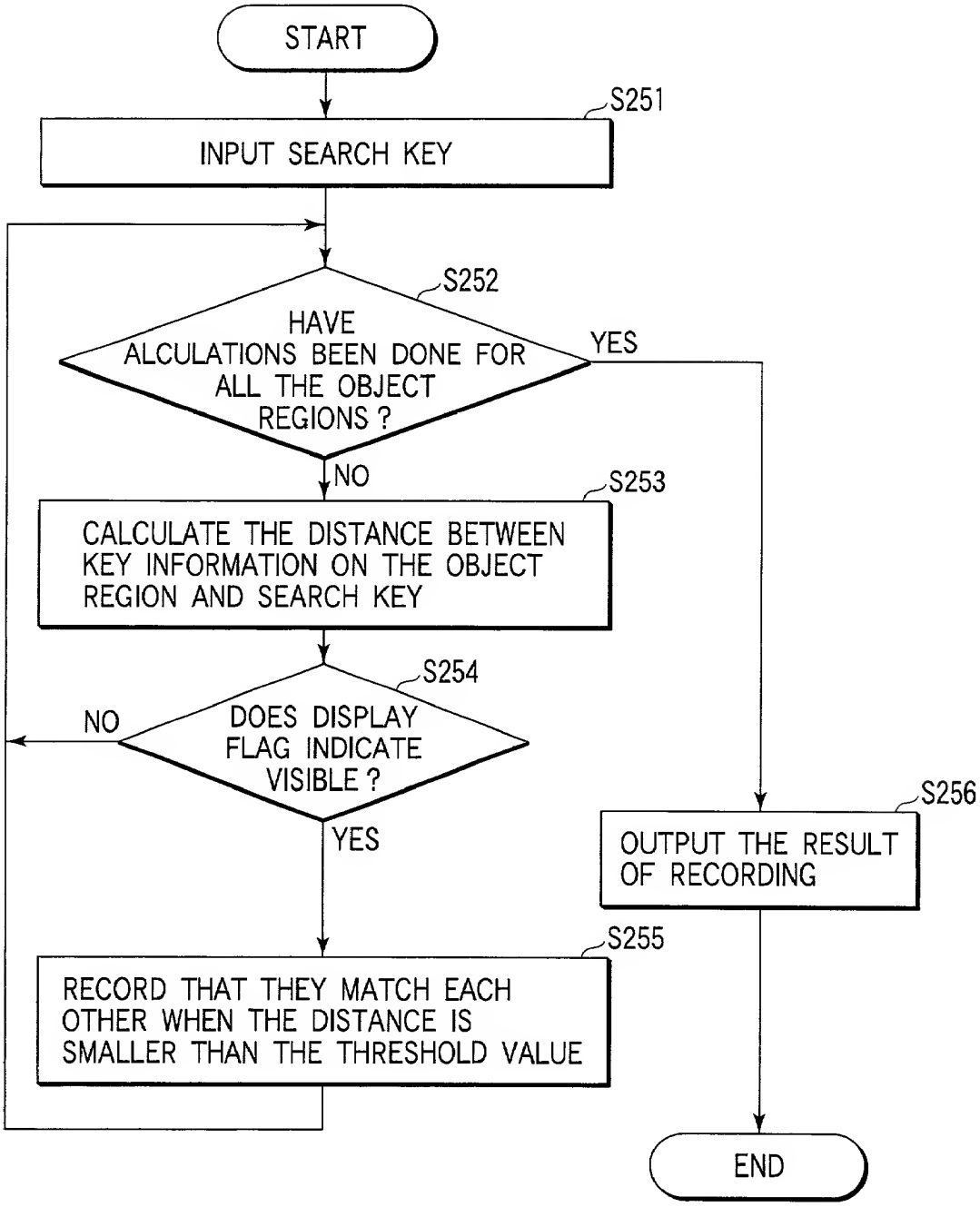

START
S251
INPUT SEARCH KEY
S252
HAVE ALCULATIONS BEEN DONE FOR ALL THE OBJECT REGIONS ?
YES
NO
S253
CALCULATE THE DISTANCE BETWEEN KEY INFORMATION ON THE OBJECT REGION AND SEARCH KEY
S254
DOES DISPLAY FLAG INDICATE VISIBLE ?
NO
YES
S255
RECORD THAT THEY MATCH EACH OTHER WHEN THE DISTANCE IS SMALLER THAN THE THRESHOLD VALUE
S256
OUTPUT THE RESULT OF RECORDING
END

FIG. 31

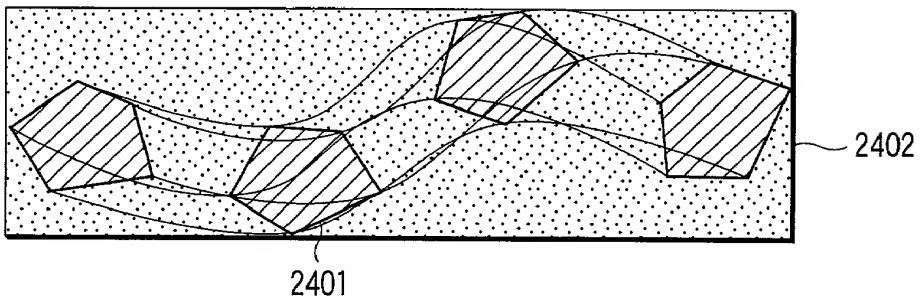


FIG. 32A

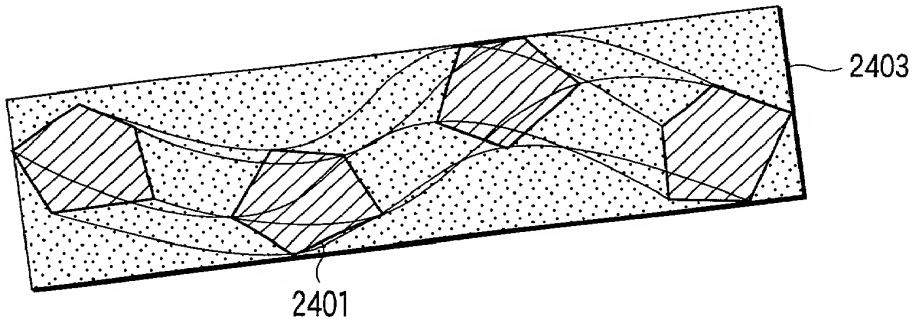


FIG. 32B

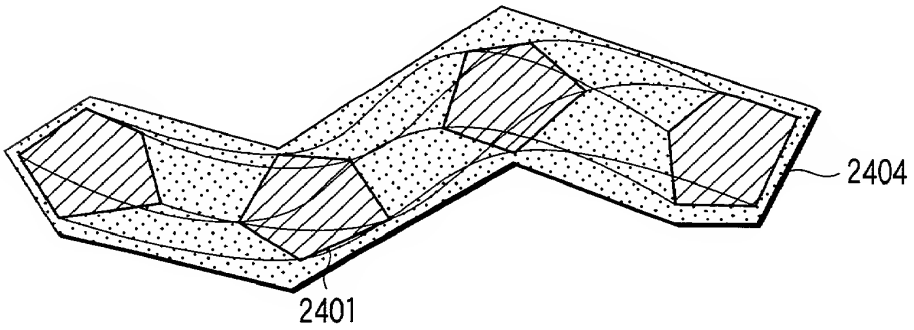


FIG. 32C

EFS ID: 2135950
Date: 05-20-2008

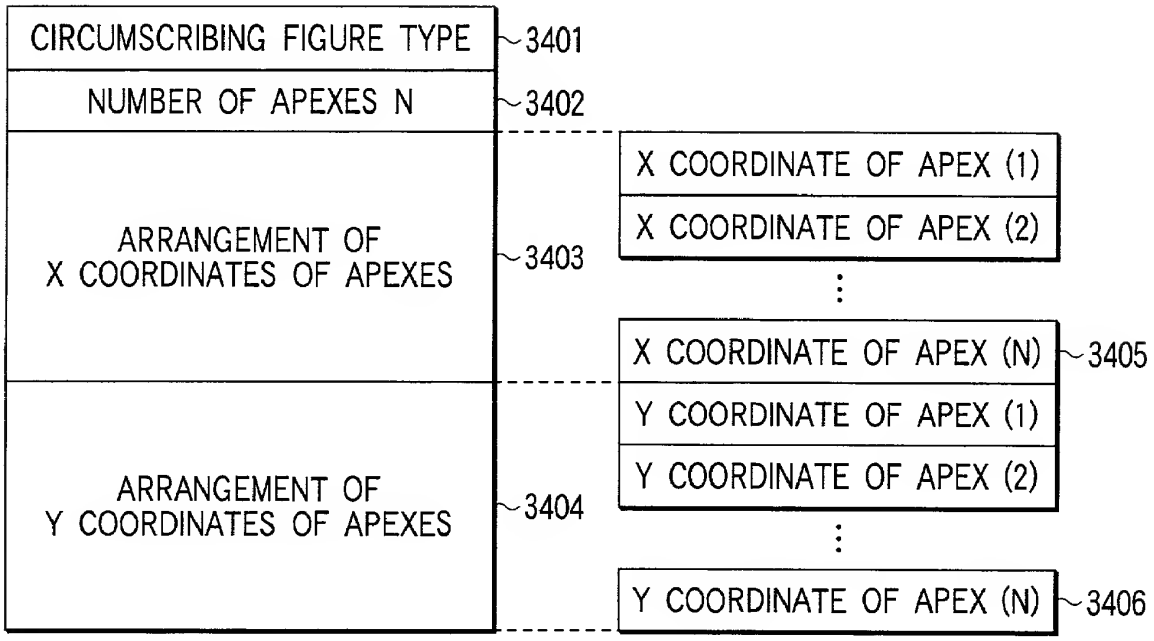

CIRCUMSCRIBING FIGURE TYPE
3401
NUMBER OF APEXES N
3402
ARRANGEMENT OF X COORDINATES OF APEXES
3403
X COORDINATE OF APEX (1)
X COORDINATE OF APEX (2)
X COORDINATE OF APEX (N)
3405
ARRANGEMENT OF Y COORDINATES OF APEXES
3404
Y COORDINATE OF APEX (1)
Y COORDINATE OF APEX (2)
Y COORDINATE OF APEX (N)
3406

FIG. 33

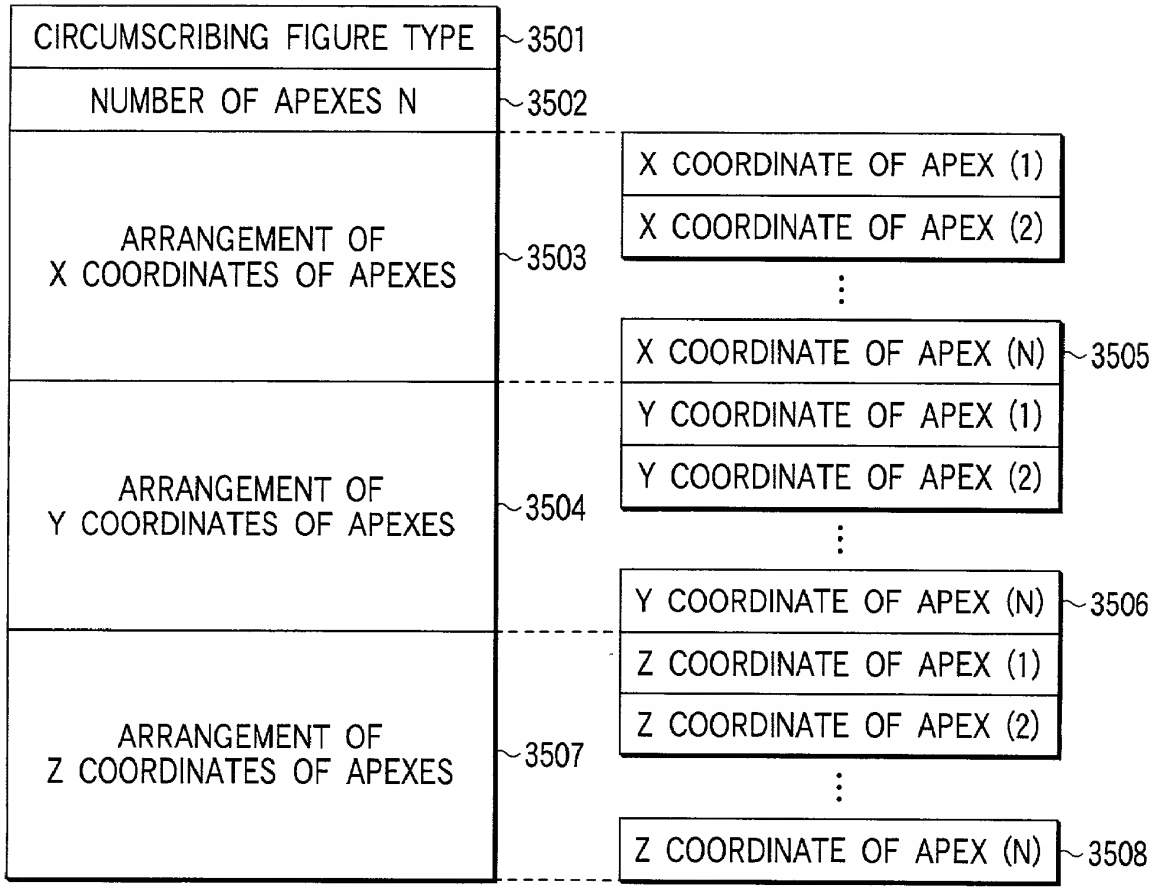

CIRCUMSCRIBING FIGURE TYPE
3501
NUMBER OF APEXES N
3502
ARRANGEMENT OF X COORDINATES OF APEXES
3503
X COORDINATE OF APEX (1)
X COORDINATE OF APEX (2)
X COORDINATE OF APEX (N)
3505
ARRANGEMENT OF Y COORDINATES OF APEXES
3504
Y COORDINATE OF APEX (1)
Y COORDINATE OF APEX (2)
Y COORDINATE OF APEX (N)
3506
ARRANGEMENT OF Z COORDINATES OF APEXES
3507
Z COORDINATE OF APEX (1)
Z COORDINATE OF APEX (2)
Z COORDINATE OF APEX (N)
3508

FIG. 34

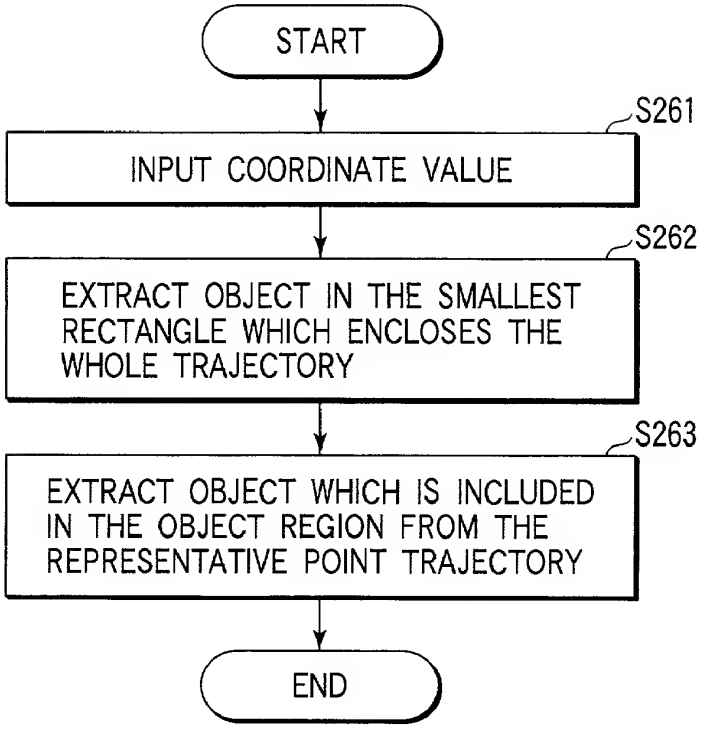

START
S261
INPUT COORDINATE VALUE
S262
EXTRACT OBJECT IN THE SMALLEST RECTANGLE WHICH ENCLOSES THE WHOLE TRAJECTORY
S263
EXTRACT OBJECT WHICH IS INCLUDED IN THE OBJECT REGION FROM THE REPRESENTATIVE POINT TRAJECTORY
END

FIG. 35

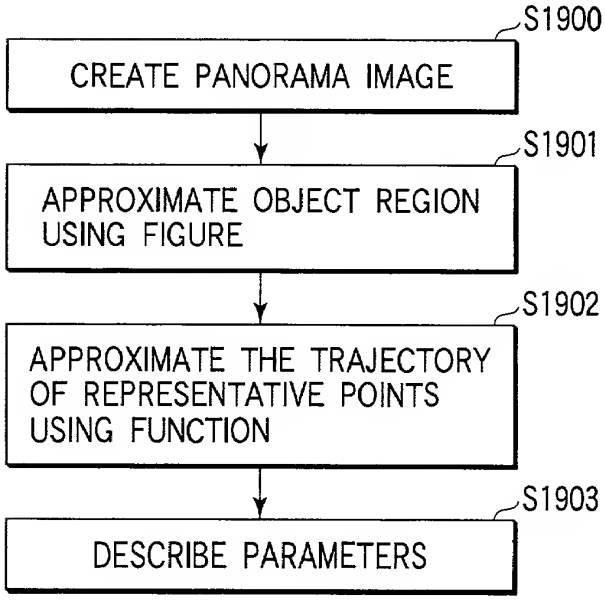

S1900
CREATE PANORAMA IMAGE
S1901
APPROXIMATE OBJECT REGION USING FIGURE
S1902
APPROXIMATE THE TRAJECTORY OF REPRESENTATIVE POINTS USING FUNCTION
S1903
DESCRIBE PARAMETERS

FIG. 36

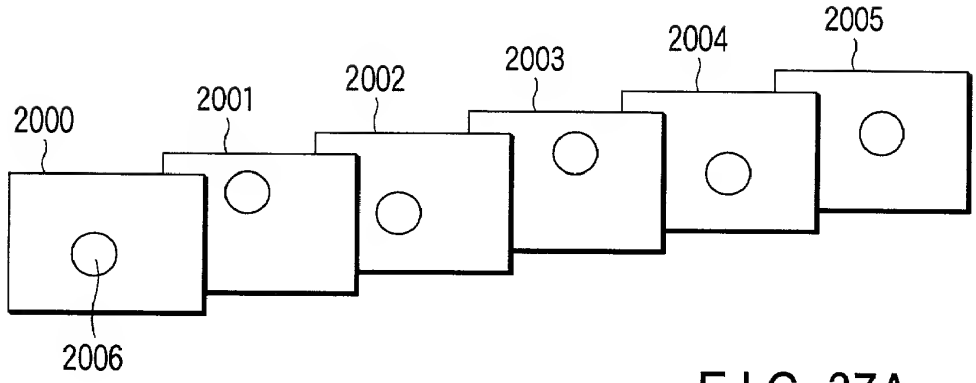


FIG. 37A

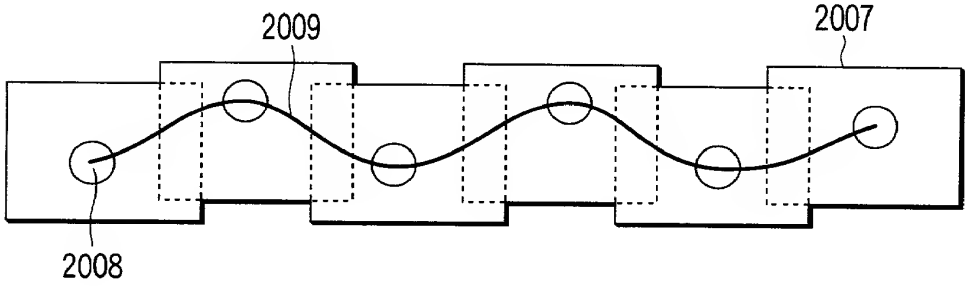


FIG. 37B

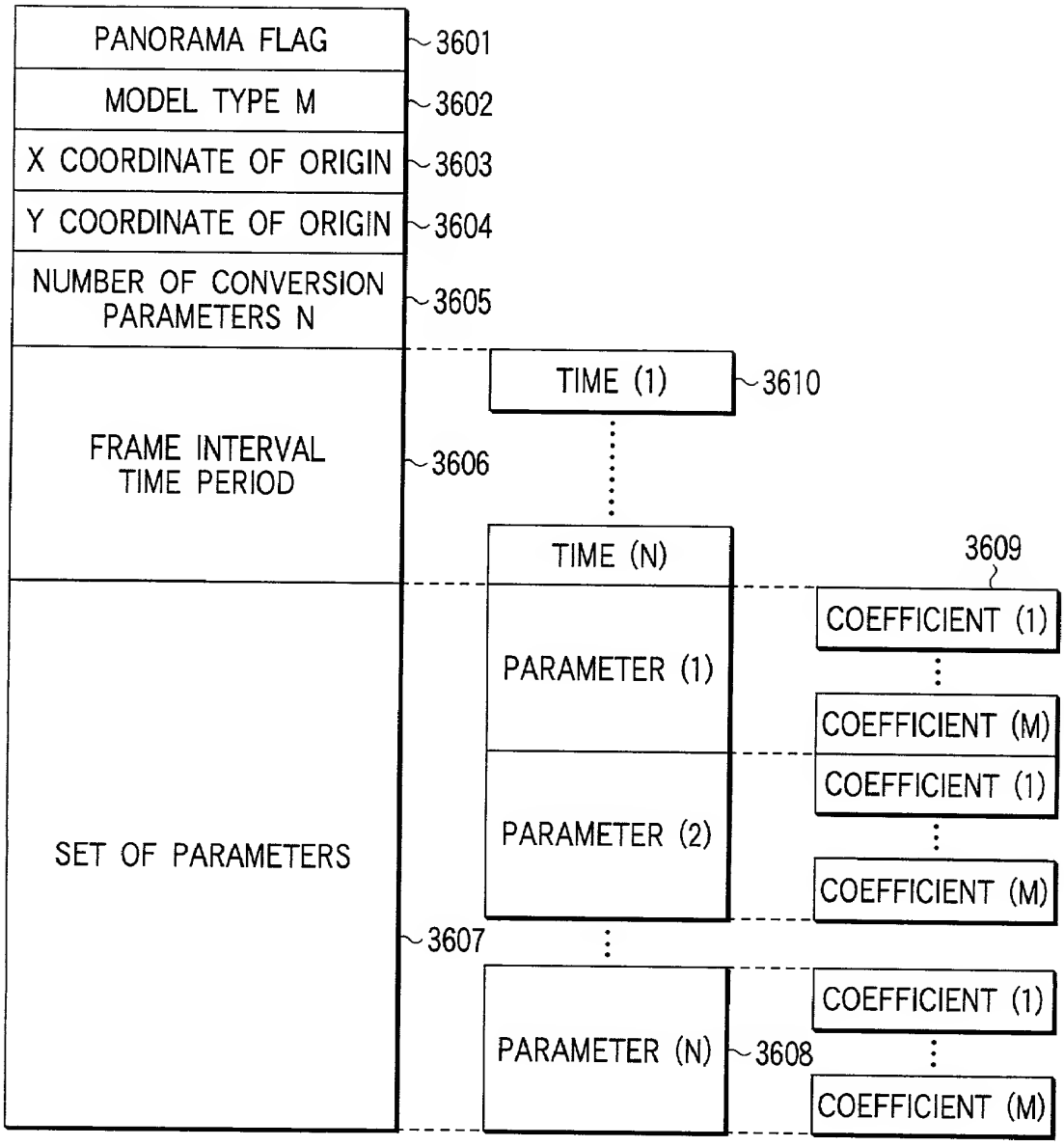

PANORAMA FLAG
3601
MODEL TYPE M
3602
X COORDINATE OF ORIGIN
3603
Y COORDINATE OF ORIGIN
3604
NUMBER OF CONVERSION PARAMETERS N
3605
FRAME INTERVAL TIME PERIOD
3606
SET OF PARAMETERS
3607
TIME (1)
3610
TIME (N)
3609
PARAMETER (1)
PARAMETER (2)
PARAMETER (N)
3608
COEFFICIENT (1)
COEFFICIENT (M)
COEFFICIENT (1)
COEFFICIENT (M)
COEFFICIENT (1)
COEFFICIENT (M)

FIG. 38

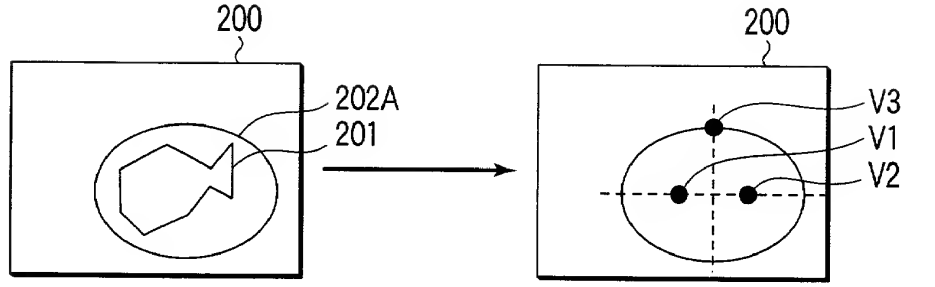


FIG. 39A

FIG. 39B

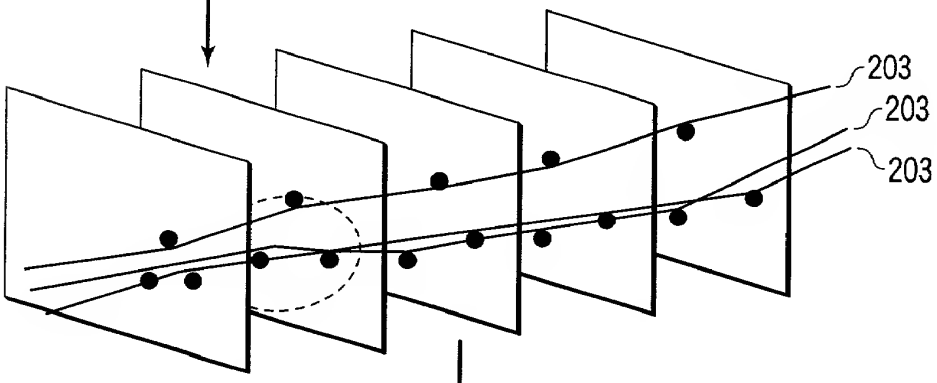


FIG. 39C

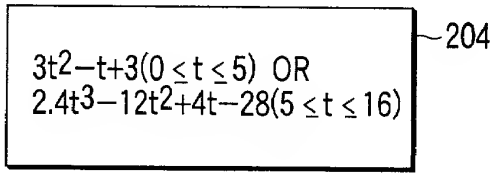


FIG. 39D

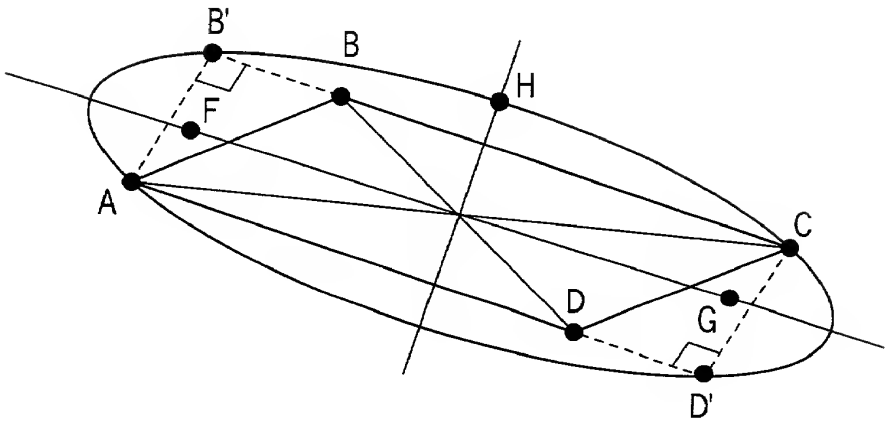


FIG. 40

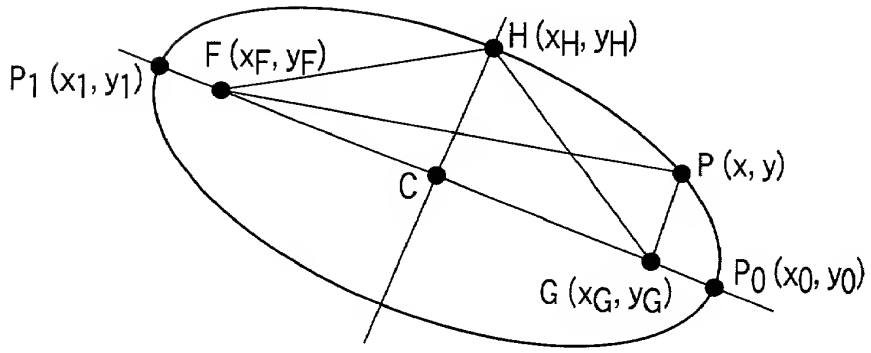


FIG. 41

OBJECT REGION DATA

ID NUMBER	400B
LEADING END FRAME NUMBER	401B
TRAILING END FRAME NUMBER	402B
POINTER FOR RELATED INFORMATION	403B
NUMBER OF APPROXIMATE FIGURES	404B
APPROXIMATE FIGURE DATA	405B

FIG. 42

APPROXIMATE FIGURE DATA

FIGURE TYPE ID	1300B
NUMBER OF REPRESENTATIVE POINTS	1301B
REPRESENTATIVE POINT X TRAJECTORY DATA (1X)	1302B
REPRESENTATIVE POINT Y TRAJECTORY DATA (1Y)	1303B
REPRESENTATIVE POINT Z TRAJECTORY DATA (1Z)	1304B
REPRESENTATIVE POINT X TRAJECTORY DATA (2X)	
REPRESENTATIVE POINT Y TRAJECTORY DATA (2Y)	
REPRESENTATIVE POINT Z TRAJECTORY DATA (2Z)	
⋮	
REPRESENTATIVE POINT X TRAJECTORY DATA (MX)	
REPRESENTATIVE POINT Y TRAJECTORY DATA (MY)	
REPRESENTATIVE POINT Z TRAJECTORY DATA (MZ)	

FIG. 43

0605120.05242

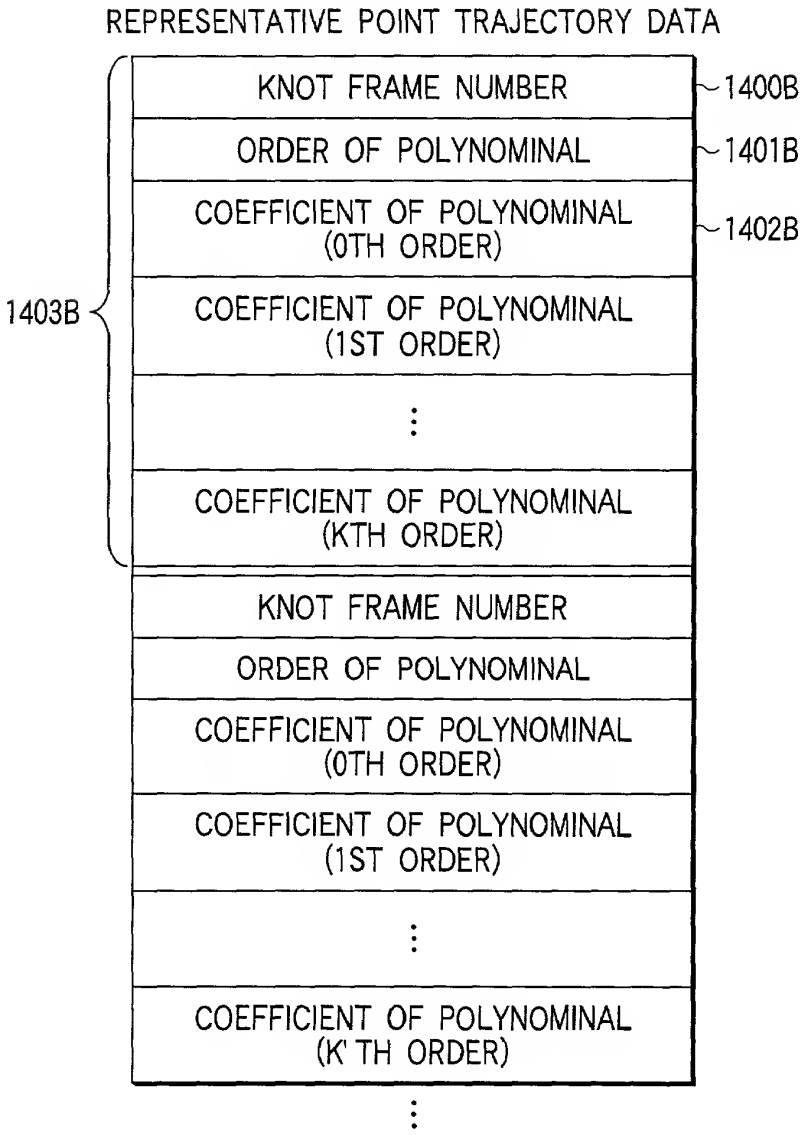


FIG. 44

US 2003/0054810 A1

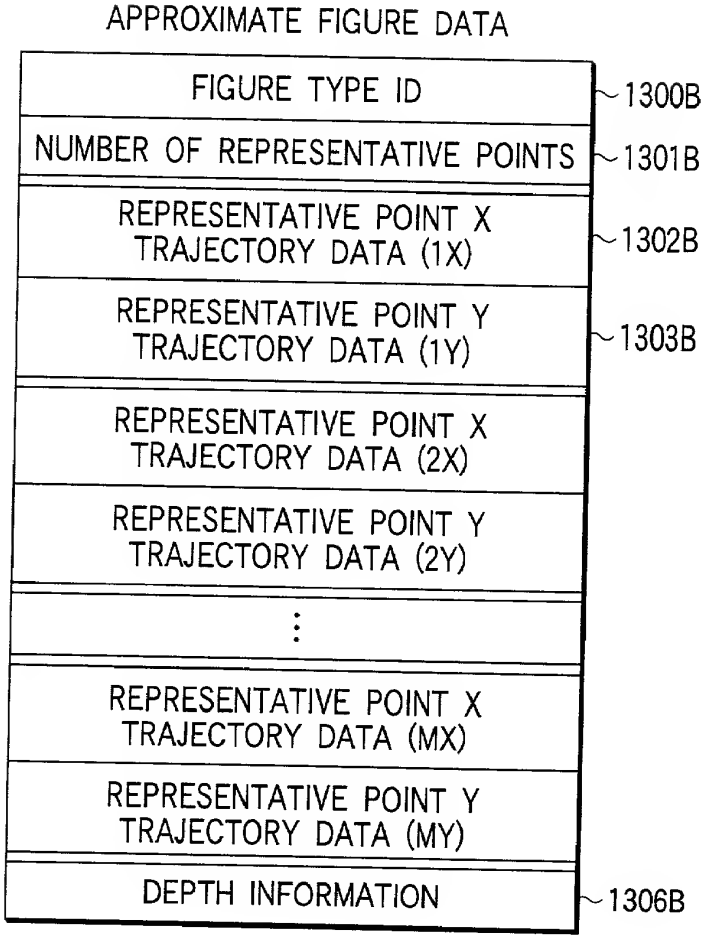

APPROXIMATE FIGURE DATA
FIGURE TYPE ID
1300B
NUMBER OF REPRESENTATIVE POINTS
1301B
REPRESENTATIVE POINT X TRAJECTORY DATA (1X)
1302B
REPRESENTATIVE POINT Y TRAJECTORY DATA (1Y)
1303B
REPRESENTATIVE POINT X TRAJECTORY DATA (2X)
REPRESENTATIVE POINT Y TRAJECTORY DATA (2Y)
REPRESENTATIVE POINT X TRAJECTORY DATA (MX)
REPRESENTATIVE POINT Y TRAJECTORY DATA (MY)
DEPTH INFORMATION
1306B

FIG. 45

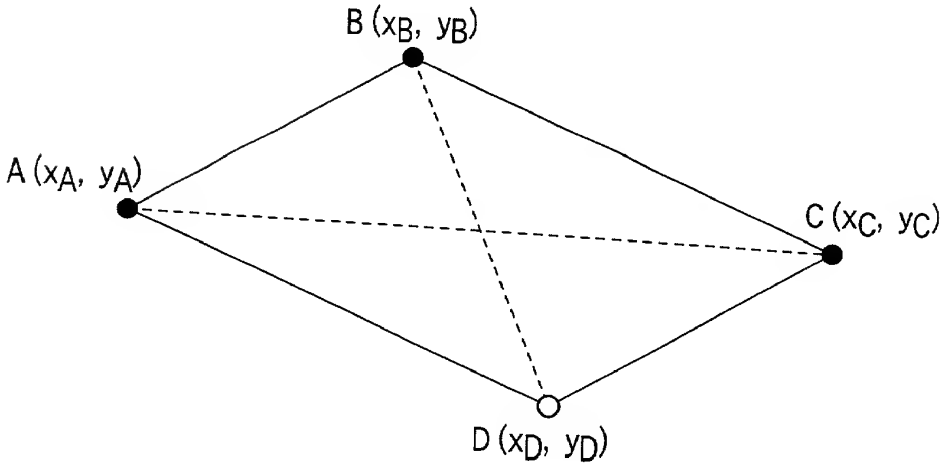

B (xB, yB)
A (xA, yA)
C (xC, yC)
D (xD, yD)

FIG. 46

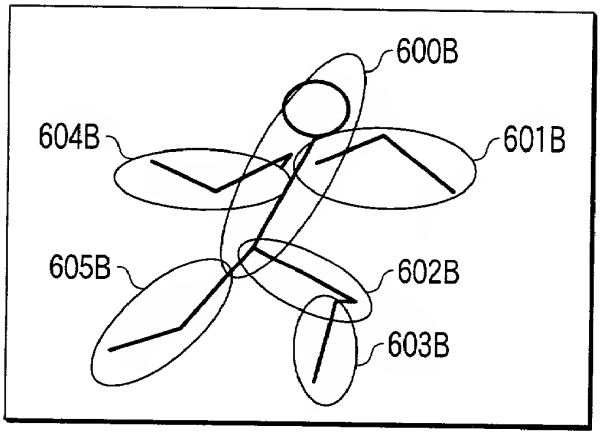


FIG. 47

OBJECT REGION DATA

ID NUMBER	400B
LEADING END FRAME NUMBER	401B
TRAILING END FRAME NUMBER	402B
POINTER FOR RELATED INFORMATION	403B
NUMBER OF APPROXIMATE FIGURES	404B
APPROXIMATE FIGURE DATA (1)	405B
APPROXIMATE FIGURE DATA (2)	⋮
⋮	
APPROXIMATE FIGURE DATA (L)	

FIG. 48

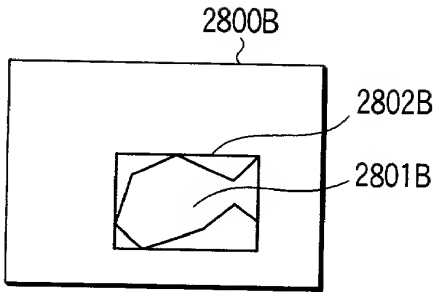


FIG. 49A

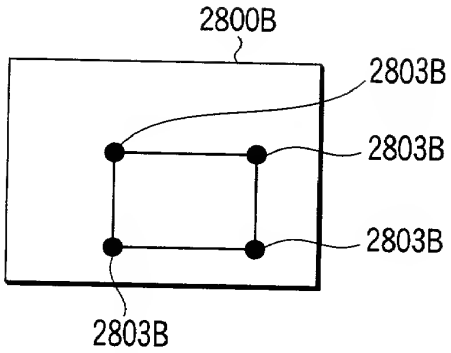


FIG. 49B

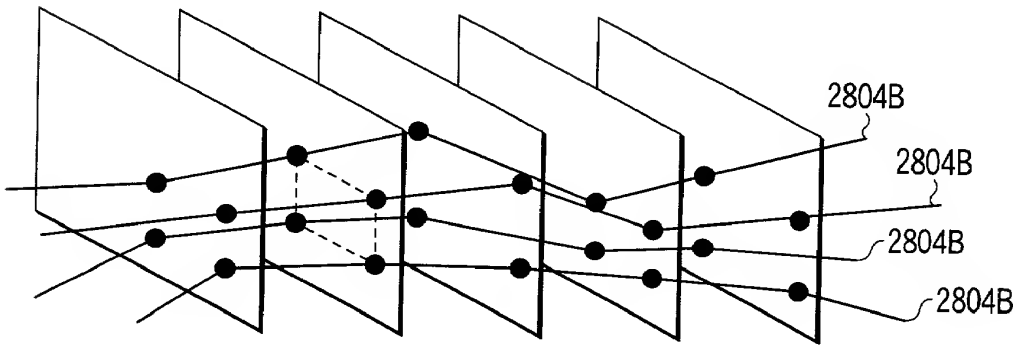


FIG. 49C

0956520 050408

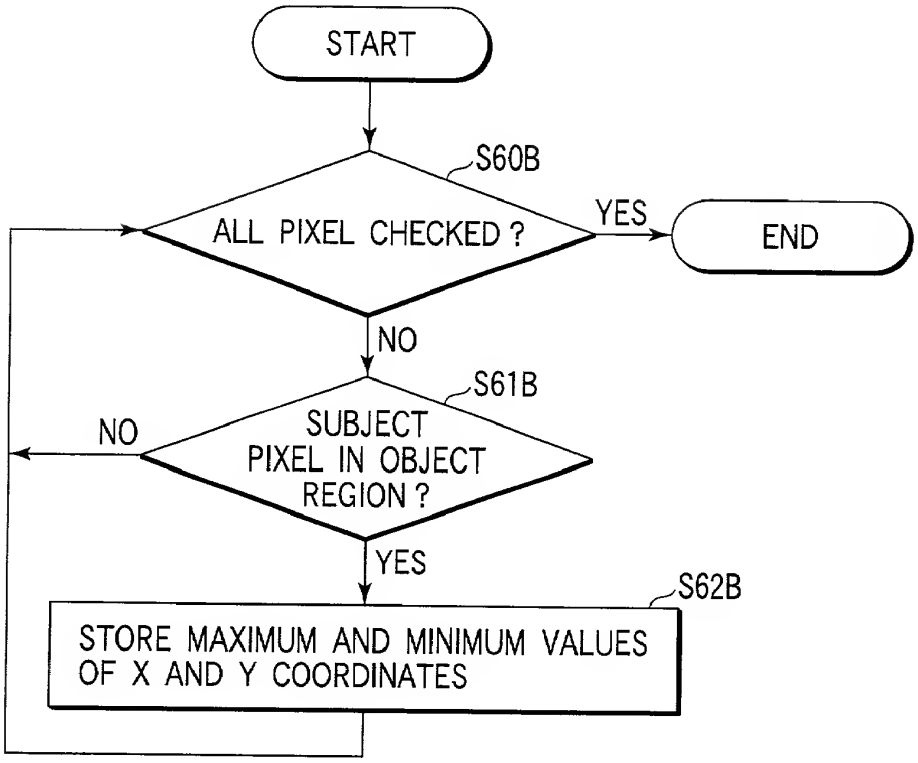

START
S60B
ALL PIXEL CHECKED ?
YES
END
NO
S61B
SUBJECT PIXEL IN OBJECT REGION ?
NO
YES
S62B
STORE MAXIMUM AND MINIMUM VALUES OF X AND Y COORDINATES

FIG. 50

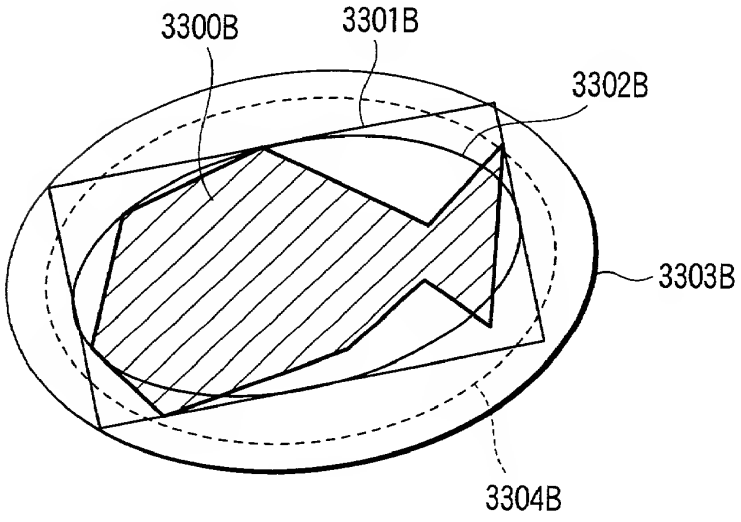

3300B
3301B
3302B
3303B
3304B

FIG. 51

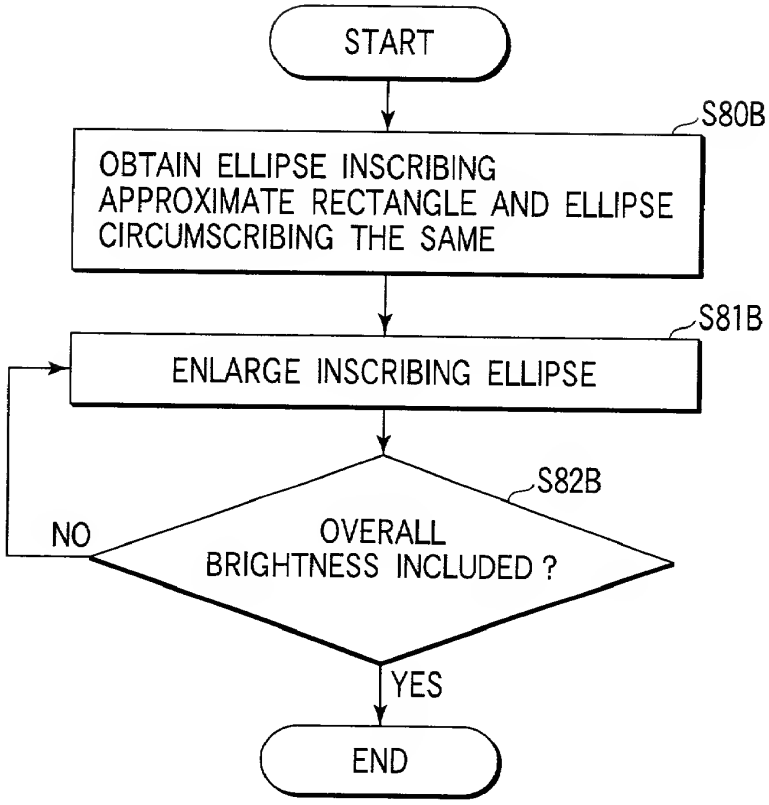

START
S80B
OBTAIN ELLIPSE INSCRIBING APPROXIMATE RECTANGLE AND ELLIPSE CIRCUMSCRIBING THE SAME
S81B
ENLARGE INSCRIBING ELLIPSE
S82B
NO
OVERALL BRIGHTNESS INCLUDED ?
YES
END

FIG. 52

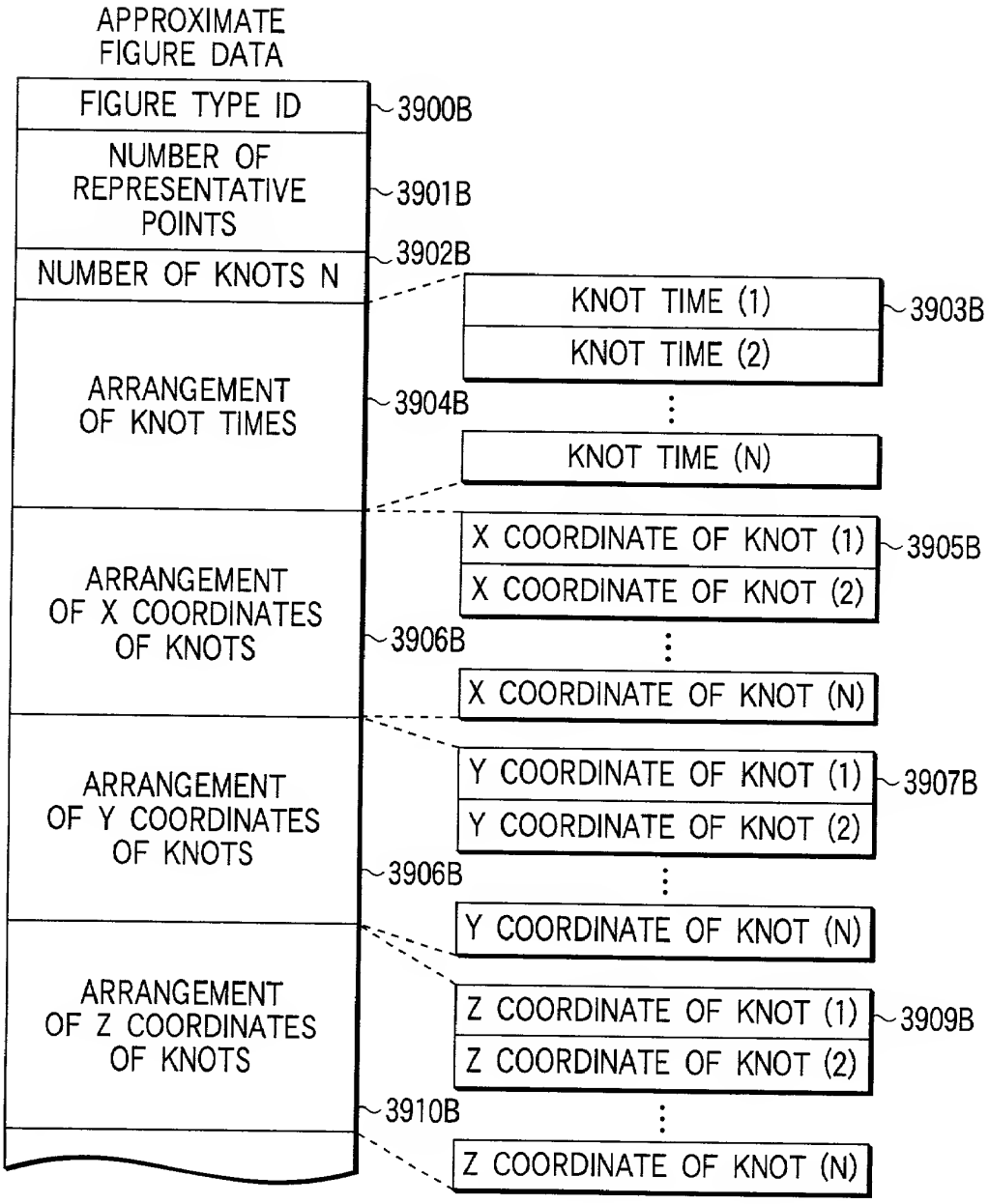

APPROXIMATE FIGURE DATA
FIGURE TYPE ID
3900B
NUMBER OF REPRESENTATIVE POINTS
3901B
NUMBER OF KNOTS N
3902B
ARRANGEMENT OF KNOT TIMES
3904B
KNOT TIME (1)
KNOT TIME (2)
3903B
KNOT TIME (N)
ARRANGEMENT OF X COORDINATES OF KNOTS
3906B
X COORDINATE OF KNOT (1)
X COORDINATE OF KNOT (2)
3905B
X COORDINATE OF KNOT (N)
ARRANGEMENT OF Y COORDINATES OF KNOTS
3906B
Y COORDINATE OF KNOT (1)
Y COORDINATE OF KNOT (2)
3907B
Y COORDINATE OF KNOT (N)
ARRANGEMENT OF Z COORDINATES OF KNOTS
3910B
Z COORDINATE OF KNOT (1)
Z COORDINATE OF KNOT (2)
3909B
Z COORDINATE OF KNOT (N)

FIG. 53

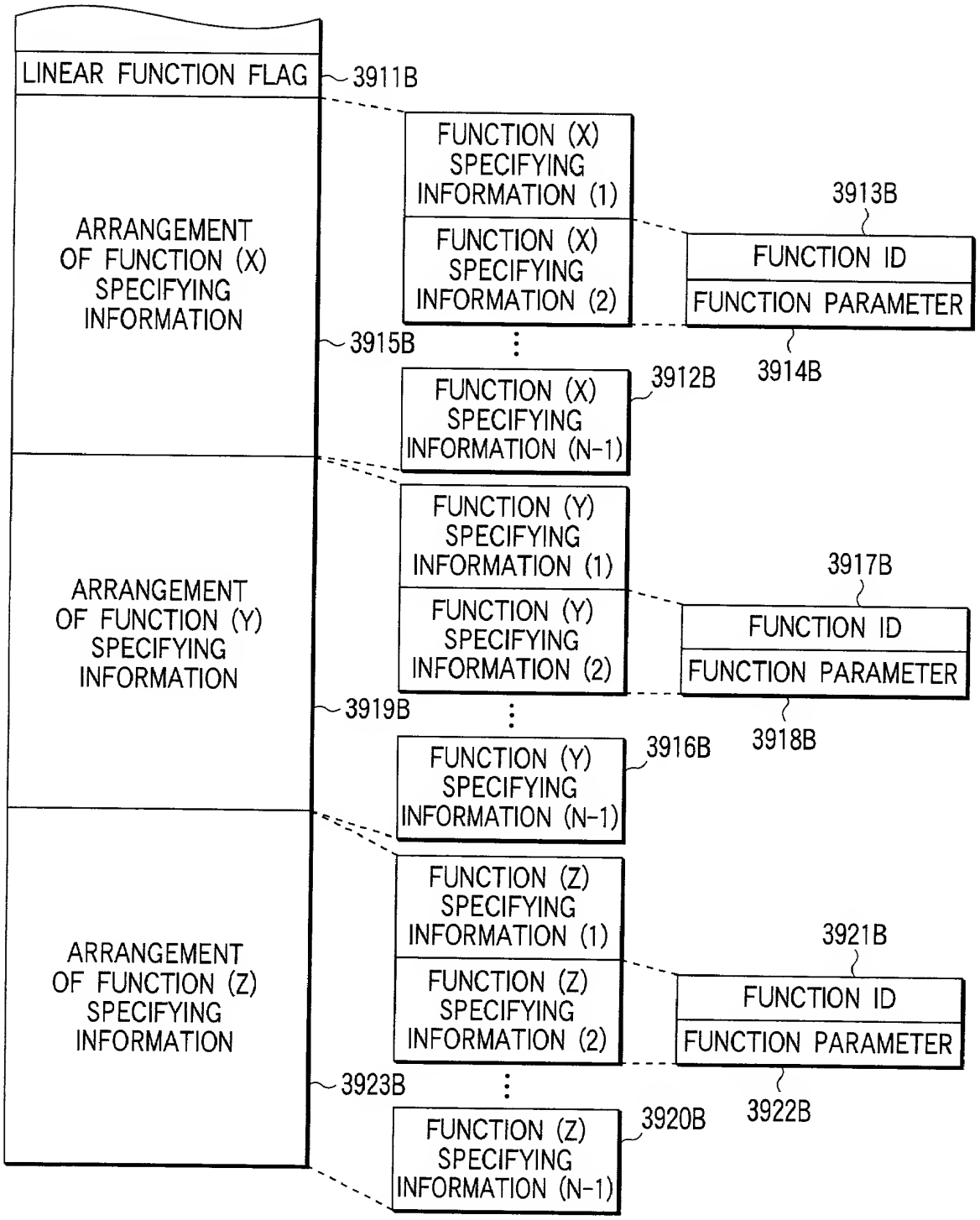

LINEAR FUNCTION FLAG
3911B
ARRANGEMENT OF FUNCTION (X) SPECIFYING INFORMATION
FUNCTION (X) SPECIFYING INFORMATION (1)
FUNCTION (X) SPECIFYING INFORMATION (2)
3913B
FUNCTION ID
FUNCTION PARAMETER
3914B
3915B
FUNCTION (X) SPECIFYING INFORMATION (N-1)
3912B
ARRANGEMENT OF FUNCTION (Y) SPECIFYING INFORMATION
FUNCTION (Y) SPECIFYING INFORMATION (1)
FUNCTION (Y) SPECIFYING INFORMATION (2)
3917B
FUNCTION ID
FUNCTION PARAMETER
3918B
3919B
FUNCTION (Y) SPECIFYING INFORMATION (N-1)
3916B
ARRANGEMENT OF FUNCTION (Z) SPECIFYING INFORMATION
FUNCTION (Z) SPECIFYING INFORMATION (1)
FUNCTION (Z) SPECIFYING INFORMATION (2)
3921B
FUNCTION ID
FUNCTION PARAMETER
3922B
3923B
FUNCTION (Z) SPECIFYING INFORMATION (N-1)
3920B

FIG. 54

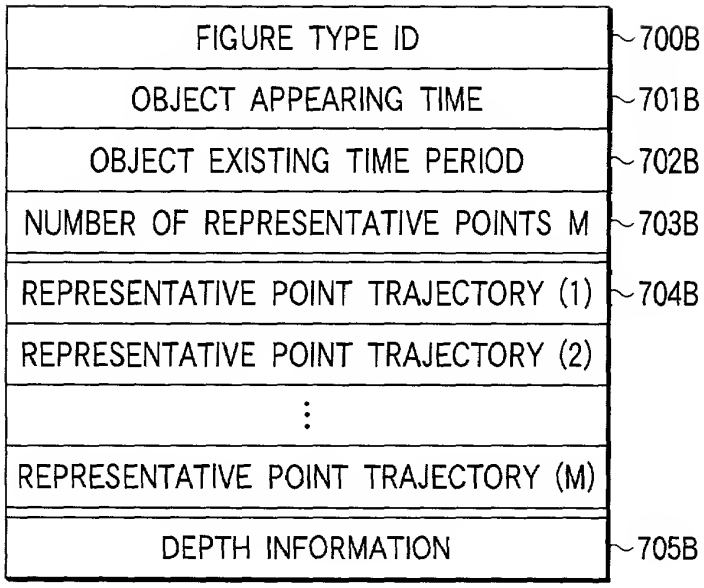


FIGURE TYPE ID
700B
OBJECT APPEARING TIME
701B
OBJECT EXISTING TIME PERIOD
702B
NUMBER OF REPRESENTATIVE POINTS M
703B
REPRESENTATIVE POINT TRAJECTORY (1)
704B
REPRESENTATIVE POINT TRAJECTORY (2)
REPRESENTATIVE POINT TRAJECTORY (M)
DEPTH INFORMATION
705B

FIG. 55

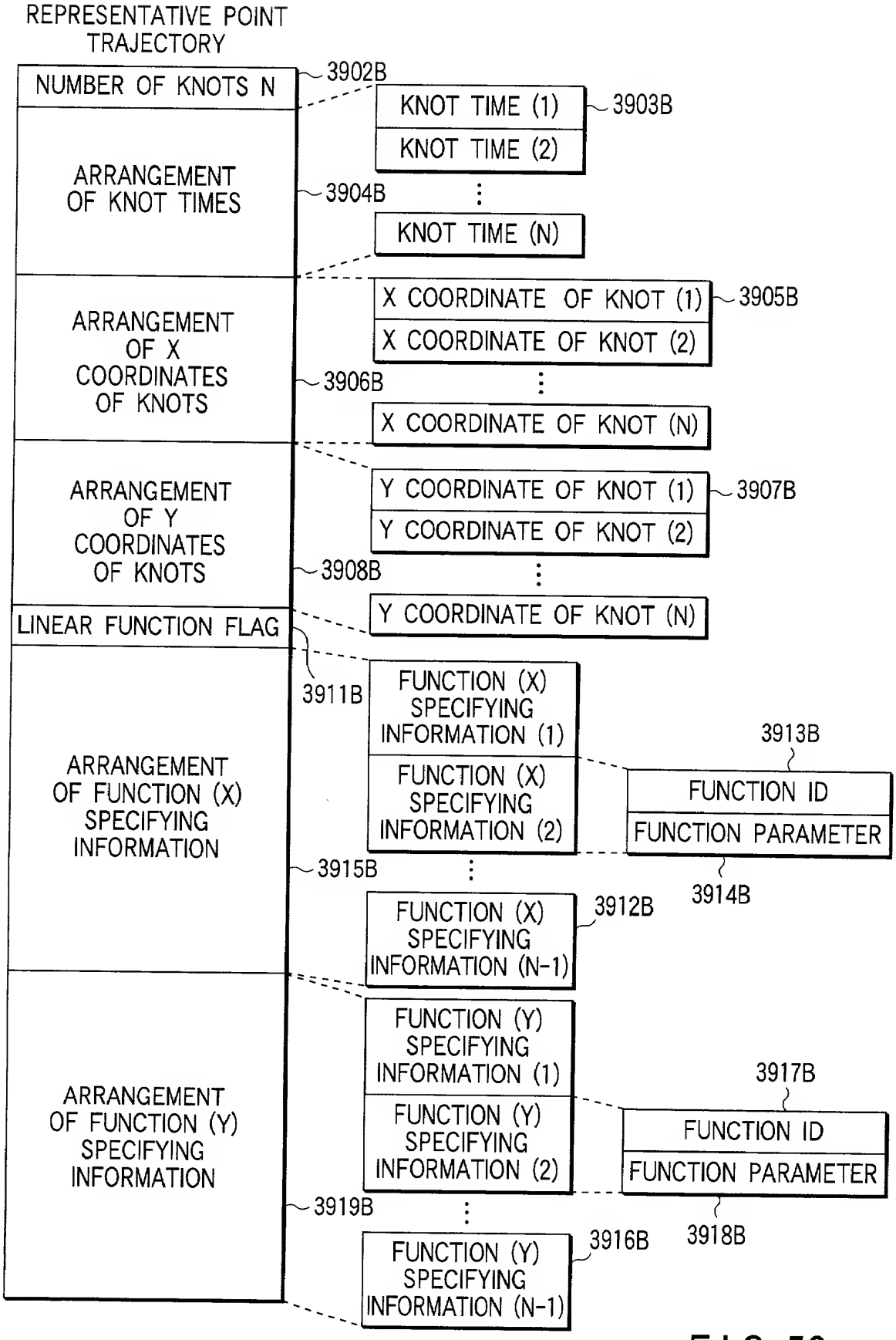

REPRESENTATIVE POINT TRAJECTORY
NUMBER OF KNOTS N
3902B
KNOT TIME (1)
3903B
KNOT TIME (2)
ARRANGEMENT OF KNOT TIMES
3904B
KNOT TIME (N)
ARRANGEMENT OF X COORDINATES OF KNOTS
X COORDINATE OF KNOT (1)
3905B
X COORDINATE OF KNOT (2)
3906B
X COORDINATE OF KNOT (N)
ARRANGEMENT OF Y COORDINATES OF KNOTS
Y COORDINATE OF KNOT (1)
3907B
Y COORDINATE OF KNOT (2)
3908B
Y COORDINATE OF KNOT (N)
LINEAR FUNCTION FLAG
3911B
ARRANGEMENT OF FUNCTION (X) SPECIFYING INFORMATION
FUNCTION (X) SPECIFYING INFORMATION (1)
3913B
FUNCTION ID
FUNCTION (X) SPECIFYING INFORMATION (2)
FUNCTION PARAMETER
3914B
3915B
FUNCTION (X) SPECIFYING INFORMATION (N-1)
3912B
ARRANGEMENT OF FUNCTION (Y) SPECIFYING INFORMATION
FUNCTION (Y) SPECIFYING INFORMATION (1)
3917B
FUNCTION ID
FUNCTION (Y) SPECIFYING INFORMATION (2)
FUNCTION PARAMETER
3918B
3919B
FUNCTION (Y) SPECIFYING INFORMATION (N-1)
3916B

FIG. 56

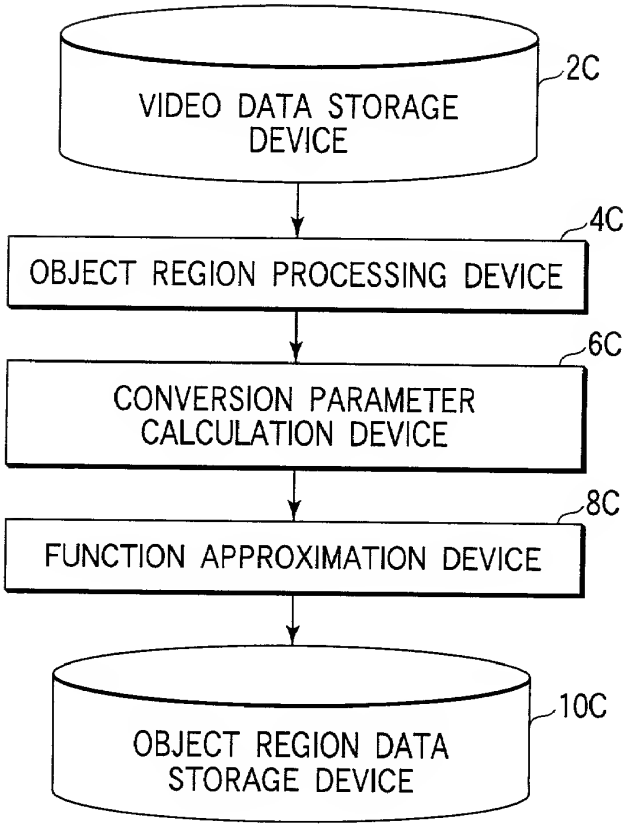

VIDEO DATA STORAGE DEVICE
2C
OBJECT REGION PROCESSING DEVICE
4C
CONVERSION PARAMETER CALCULATION DEVICE
6C
FUNCTION APPROXIMATION DEVICE
8C
OBJECT REGION DATA STORAGE DEVICE
10C

FIG. 57

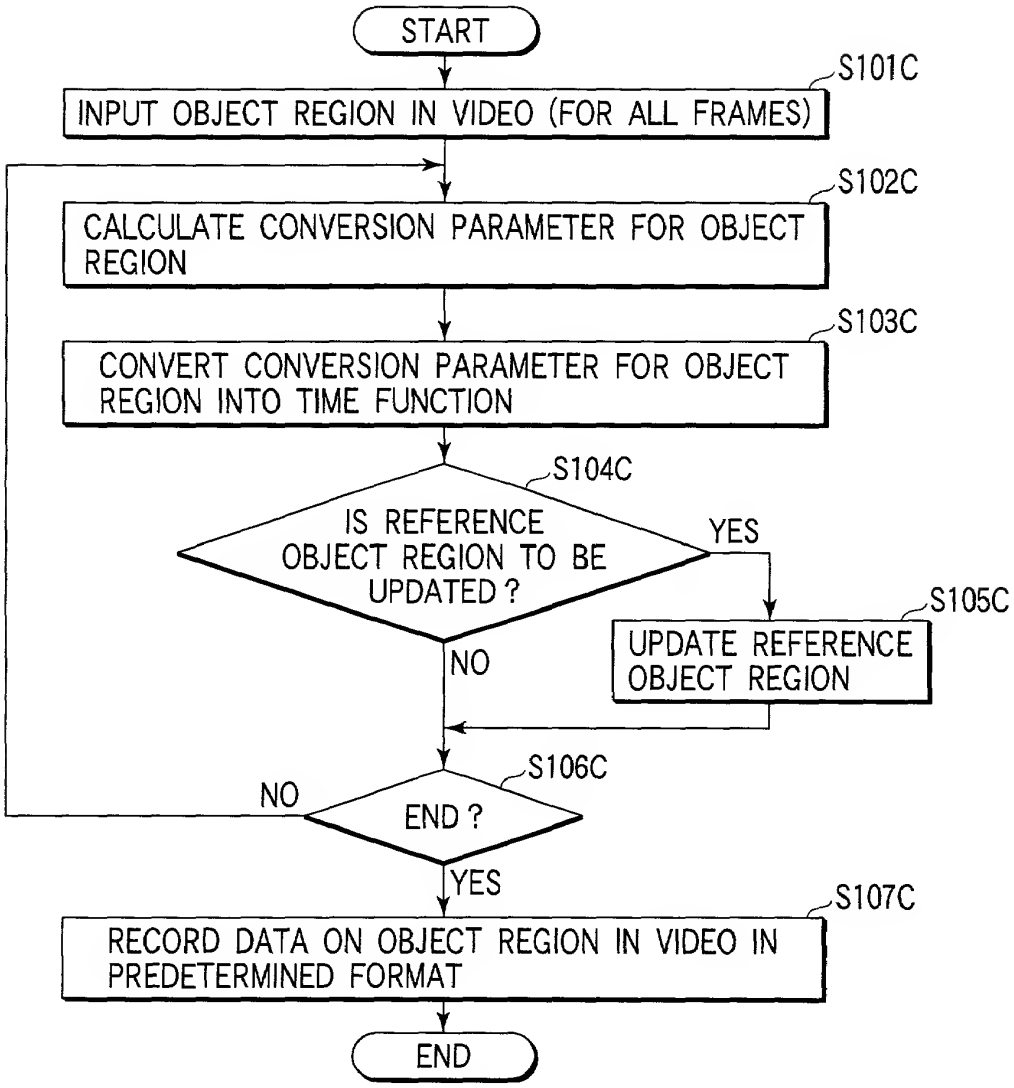

START
S101C
INPUT OBJECT REGION IN VIDEO (FOR ALL FRAMES)
S102C
CALCULATE CONVERSION PARAMETER FOR OBJECT REGION
S103C
CONVERT CONVERSION PARAMETER FOR OBJECT REGION INTO TIME FUNCTION
S104C
IS REFERENCE OBJECT REGION TO BE UPDATED ?
YES
NO
S105C
UPDATE REFERENCE OBJECT REGION
S106C
END ?
NO
YES
S107C
RECORD DATA ON OBJECT REGION IN VIDEO IN PREDETERMINED FORMAT
END

FIG. 58

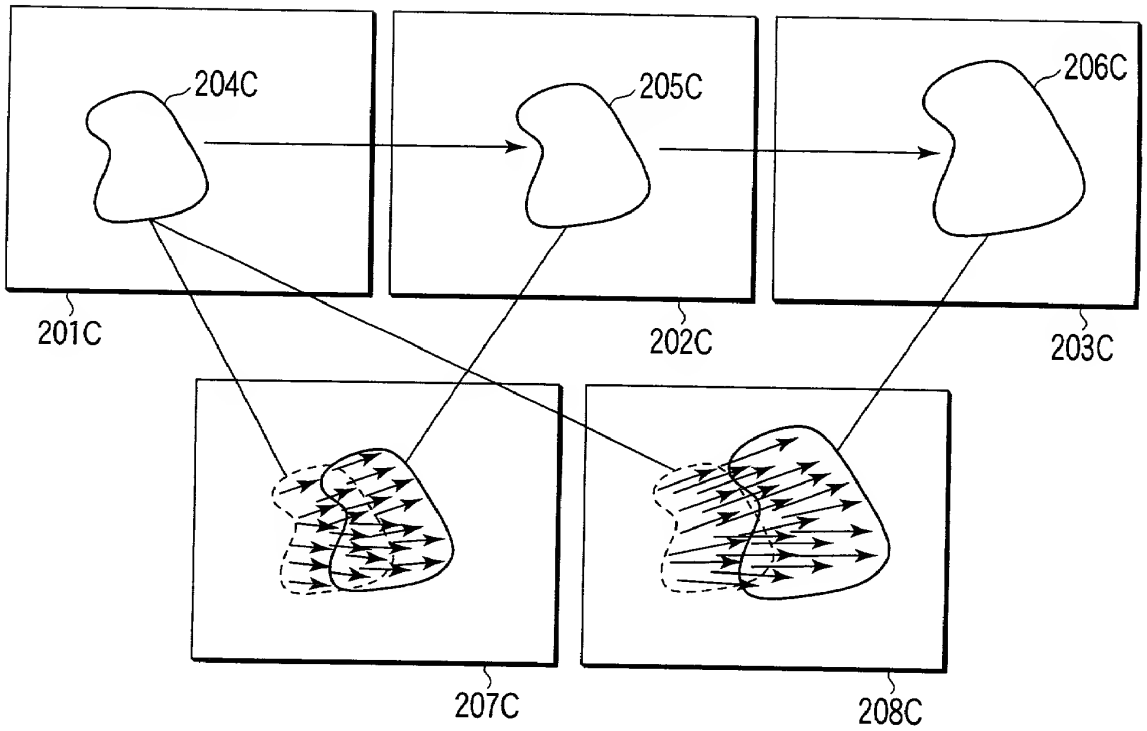

204C
205C
206C
201C
202C
203C
207C
208C

FIG. 59

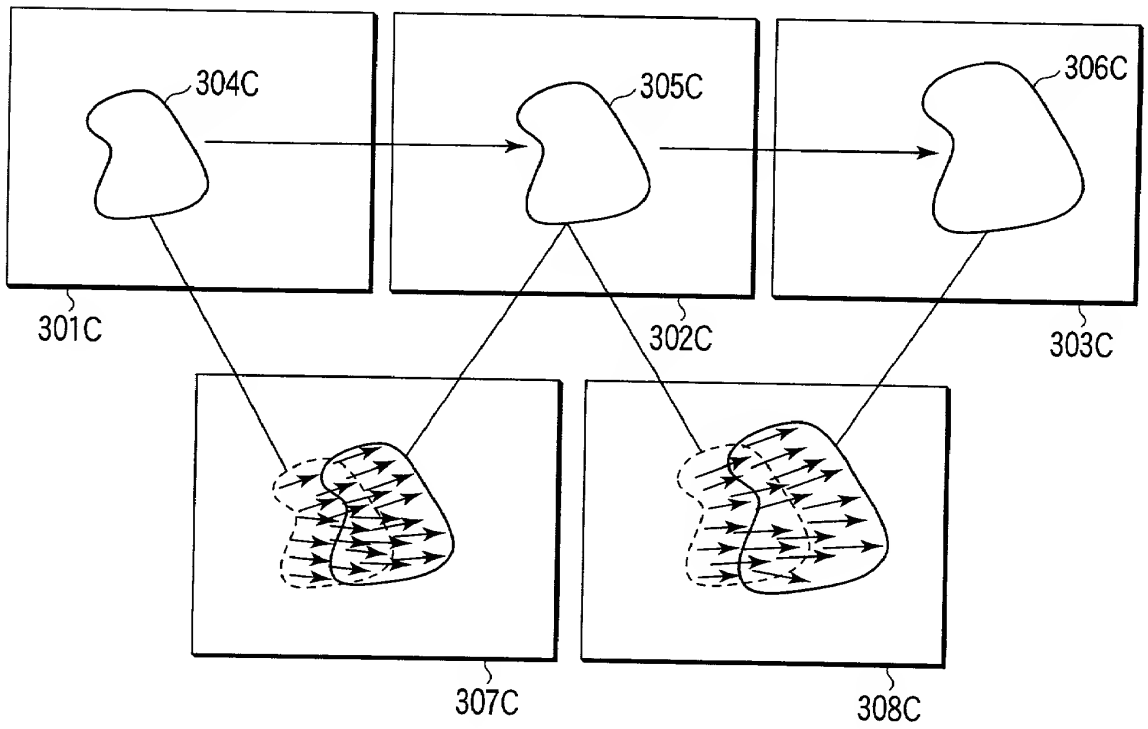

304C
305C
306C
301C
302C
303C
307C
308C

FIG. 60

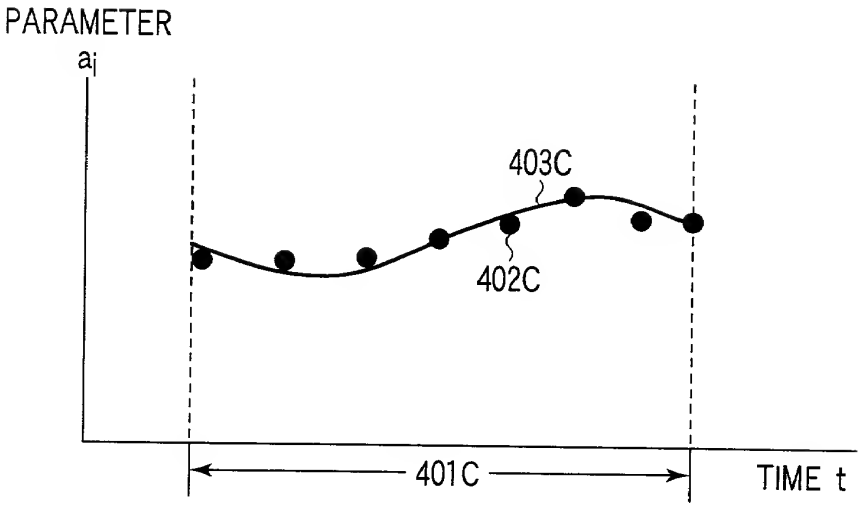

PARAMETER
ai
403C
402C
401C
TIME t

FIG. 61

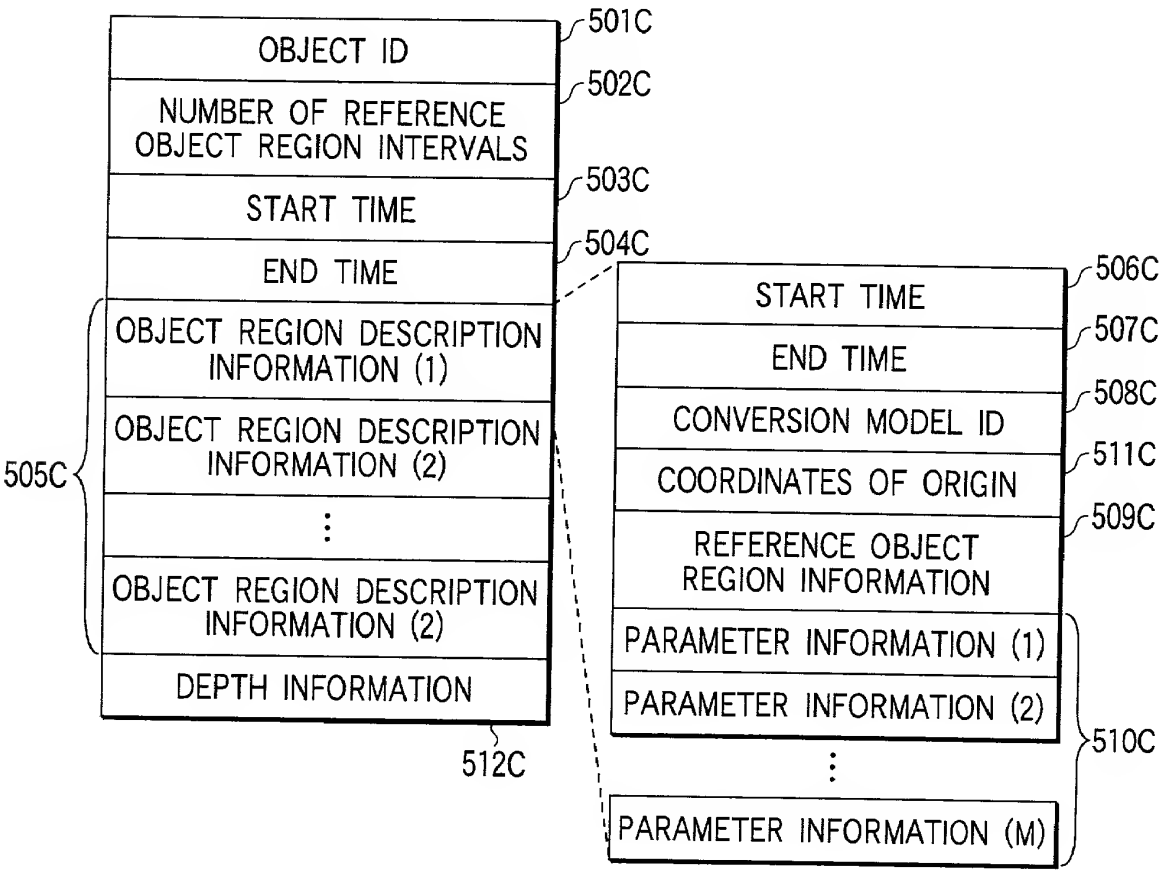

OBJECT ID
501C
NUMBER OF REFERENCE OBJECT REGION INTERVALS
502C
START TIME
503C
END TIME
504C
OBJECT REGION DESCRIPTION INFORMATION (1)
OBJECT REGION DESCRIPTION INFORMATION (2)
505C
OBJECT REGION DESCRIPTION INFORMATION (2)
DEPTH INFORMATION
512C
START TIME
506C
END TIME
507C
CONVERSION MODEL ID
508C
COORDINATES OF ORIGIN
511C
REFERENCE OBJECT REGION INFORMATION
509C
PARAMETER INFORMATION (1)
PARAMETER INFORMATION (2)
PARAMETER INFORMATION (M)
510C

FIG. 62

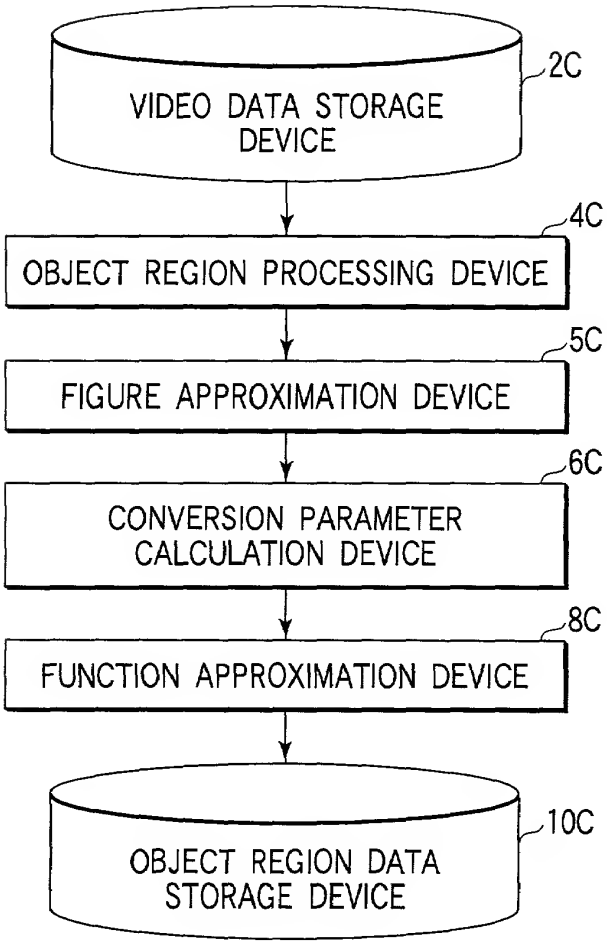


FIG. 63

EP 1 950 954 A2

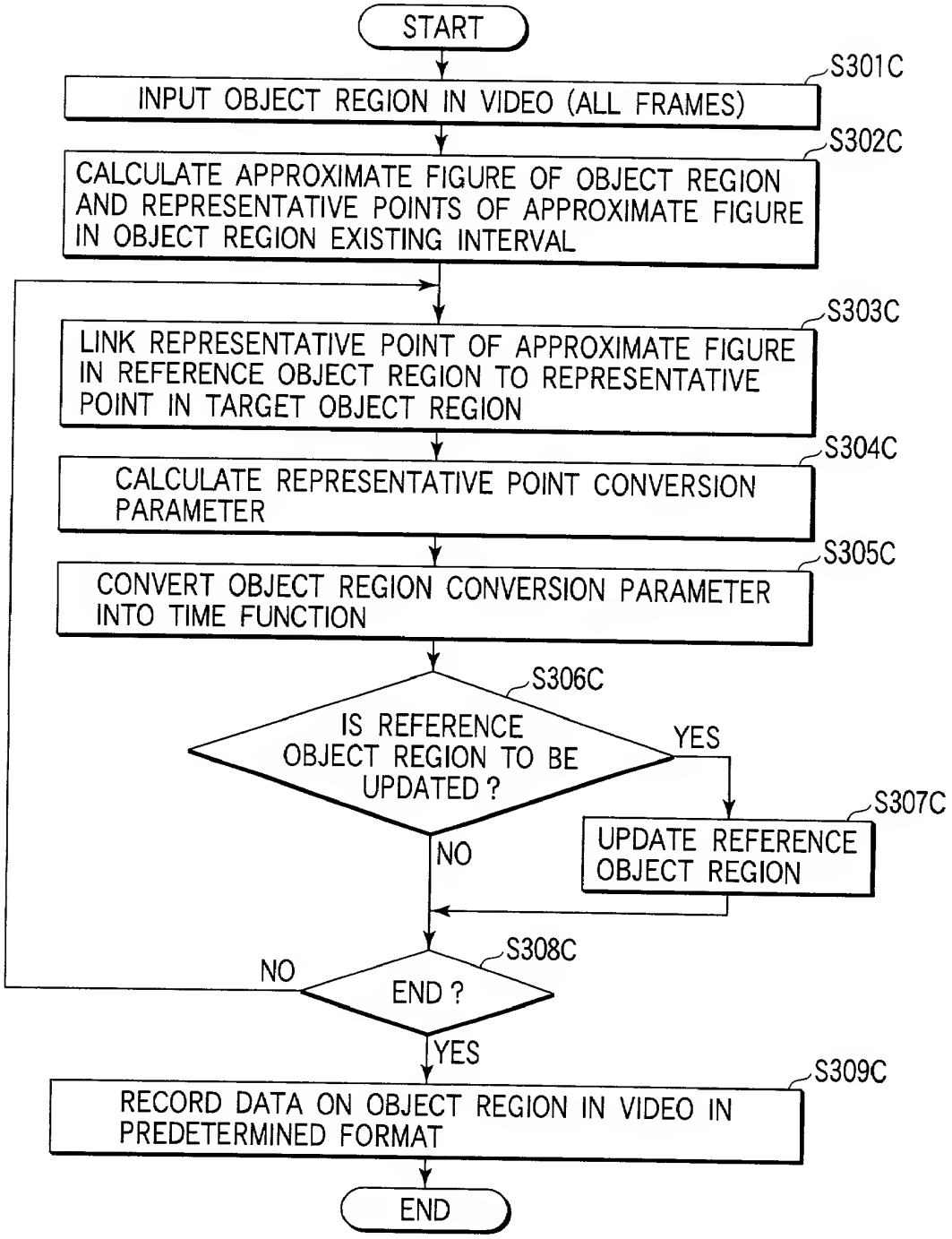

START
S301C
INPUT OBJECT REGION IN VIDEO (ALL FRAMES)
S302C
CALCULATE APPROXIMATE FIGURE OF OBJECT REGION AND REPRESENTATIVE POINTS OF APPROXIMATE FIGURE IN OBJECT REGION EXISTING INTERVAL
S303C
LINK REPRESENTATIVE POINT OF APPROXIMATE FIGURE IN REFERENCE OBJECT REGION TO REPRESENTATIVE POINT IN TARGET OBJECT REGION
S304C
CALCULATE REPRESENTATIVE POINT CONVERSION PARAMETER
S305C
CONVERT OBJECT REGION CONVERSION PARAMETER INTO TIME FUNCTION
S306C
IS REFERENCE OBJECT REGION TO BE UPDATED ?
YES
NO
S307C
UPDATE REFERENCE OBJECT REGION
S308C
END ?
NO
YES
S309C
RECORD DATA ON OBJECT REGION IN VIDEO IN PREDETERMINED FORMAT
END

FIG. 64

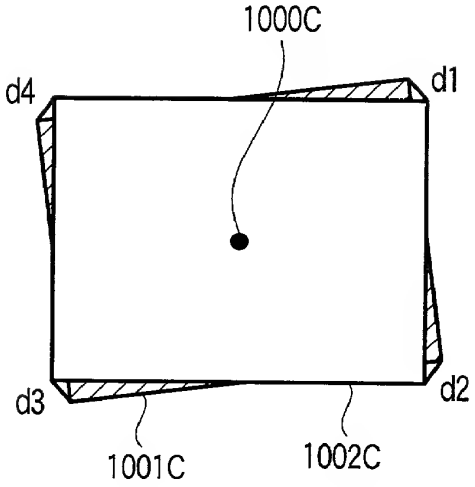


FIG. 65

MOVEMENT MODEL / APPROXIMATE FIGURE	ENLARGEMENT/ REDUCTION	ROTATION	PARALLEL TRANSLATION	4-PARAMETER CONVERSION	AFFINE CONVERSION	PROJECTION CONVERSION	PARABOLIC CONVERSION
RECTANGLE, ELLIPSE (WITHOUT GRADIENT)	○	×	○	×	×	×	×
RECTANGLE, ELLIPSE (WITH GRADIENT)	○	○	○	○	×	×	×
PARALLELOGRAM	○	○	○	○	○	×	×
POLYGON (NUMBER OF VERTEXES > 11)	○	○	○	○	○	○	○

FIG. 66

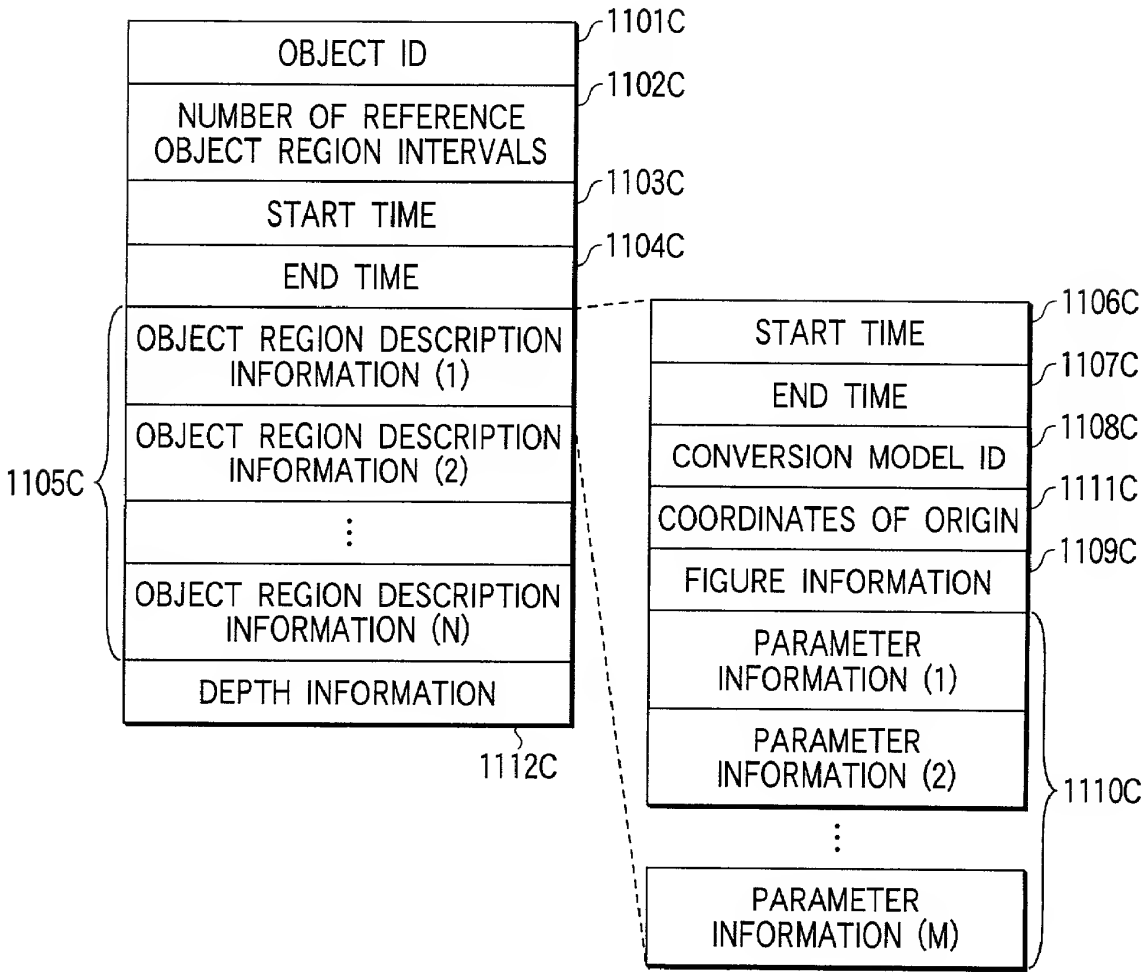

OBJECT ID
1101C
NUMBER OF REFERENCE OBJECT REGION INTERVALS
1102C
START TIME
1103C
END TIME
1104C
OBJECT REGION DESCRIPTION INFORMATION (1)
OBJECT REGION DESCRIPTION INFORMATION (2)
OBJECT REGION DESCRIPTION INFORMATION (N)
1105C
DEPTH INFORMATION
1112C
START TIME
1106C
END TIME
1107C
CONVERSION MODEL ID
1108C
COORDINATES OF ORIGIN
1111C
FIGURE INFORMATION
1109C
PARAMETER INFORMATION (1)
PARAMETER INFORMATION (2)
PARAMETER INFORMATION (M)
1110C

FIG. 67

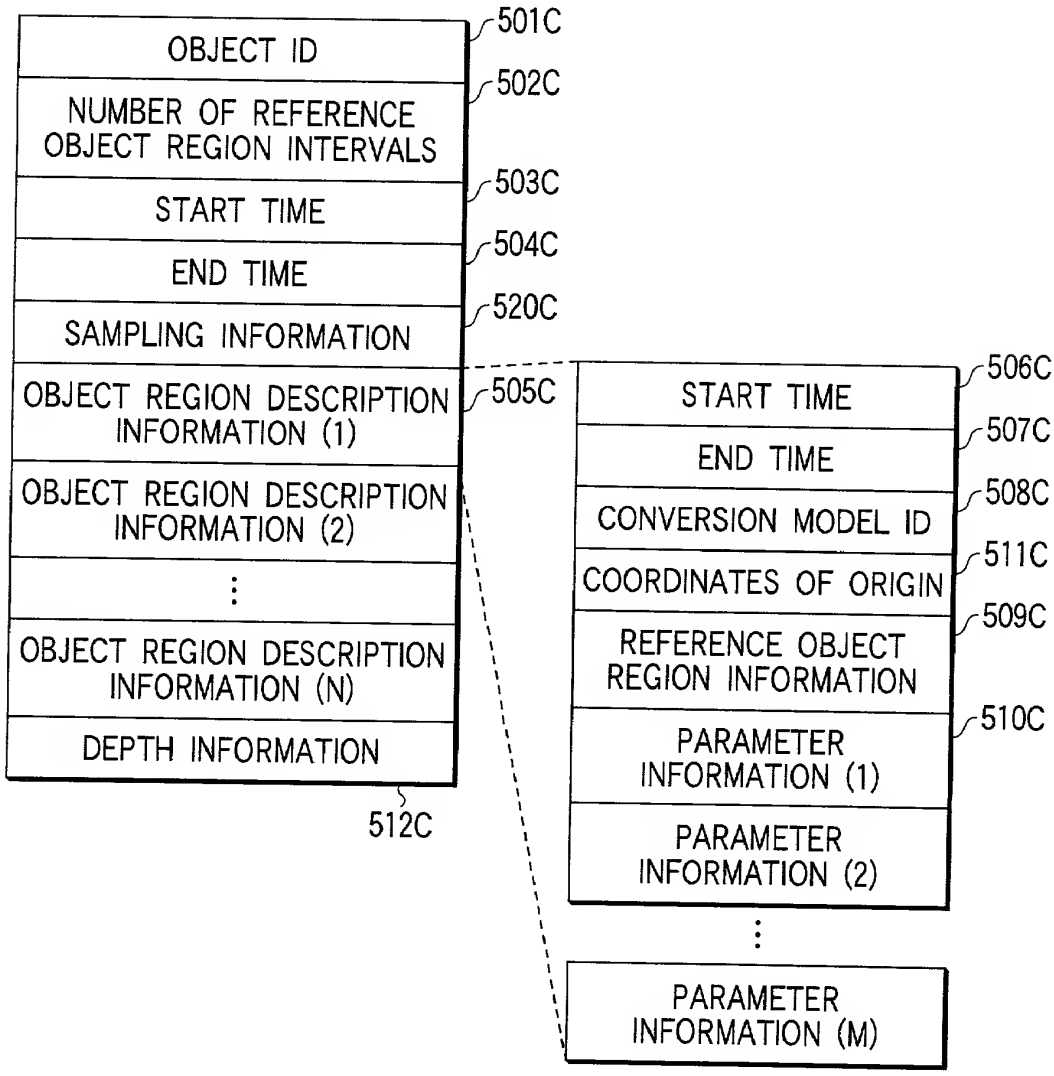

OBJECT ID
501C
NUMBER OF REFERENCE OBJECT REGION INTERVALS
502C
START TIME
503C
END TIME
504C
SAMPLING INFORMATION
520C
OBJECT REGION DESCRIPTION INFORMATION (1)
505C
OBJECT REGION DESCRIPTION INFORMATION (2)
OBJECT REGION DESCRIPTION INFORMATION (N)
DEPTH INFORMATION
512C
START TIME
506C
END TIME
507C
CONVERSION MODEL ID
508C
COORDINATES OF ORIGIN
511C
REFERENCE OBJECT REGION INFORMATION
509C
PARAMETER INFORMATION (1)
510C
PARAMETER INFORMATION (2)
PARAMETER INFORMATION (M)

FIG. 68

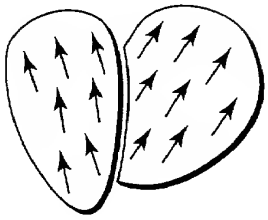


FIG. 69

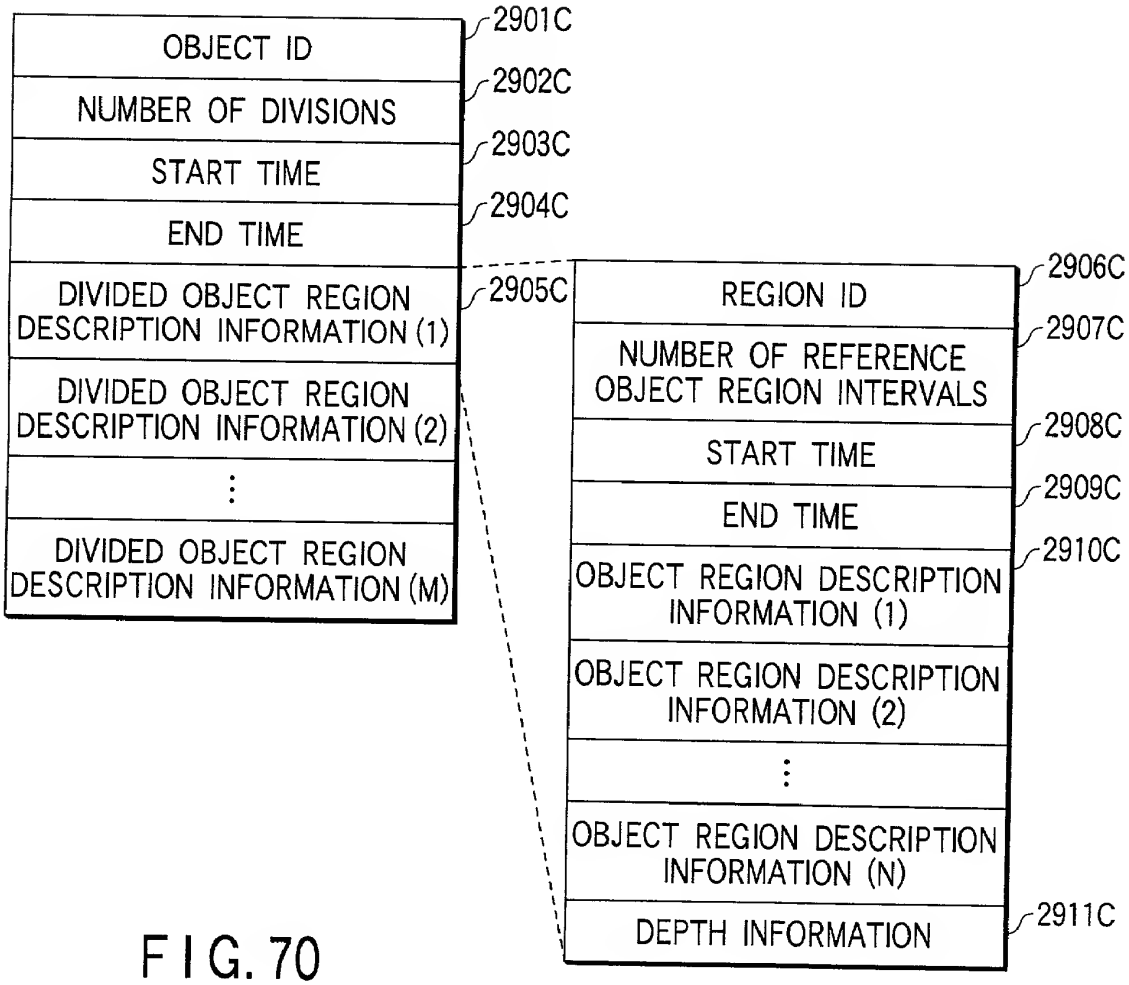

OBJECT ID
2901C
NUMBER OF DIVISIONS
2902C
START TIME
2903C
END TIME
2904C
DIVIDED OBJECT REGION DESCRIPTION INFORMATION (1)
2905C
DIVIDED OBJECT REGION DESCRIPTION INFORMATION (2)
DIVIDED OBJECT REGION DESCRIPTION INFORMATION (M)
REGION ID
2906C
NUMBER OF REFERENCE OBJECT REGION INTERVALS
2907C
START TIME
2908C
END TIME
2909C
OBJECT REGION DESCRIPTION INFORMATION (1)
2910C
OBJECT REGION DESCRIPTION INFORMATION (2)
OBJECT REGION DESCRIPTION INFORMATION (N)
DEPTH INFORMATION
2911C

FIG. 70